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AMERICAN SURVIVAL GUIDE

Self-Defense ★ Self-Reliance ★ Freedom

48378 JUNE 1985 VOL. 7 NO. 6
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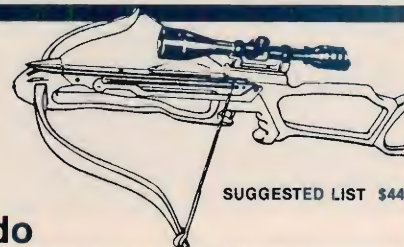
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COVER:
Armed with the Barnett Panzer II the urban survivalist ventures from his hiding place. See Page 56. Inset: The Galil 7.62mm Israeli battle rifle is simple, efficient, powerful. See Page 24. (Photos by Dave Epperson)



Page 38

6 To The Point
Do you build a wall to keep out information?

8 Mail Call
A phone number is corrected, one-handed living, alternate fuel.

10 Survival Line
Feds cut CD funds, states nix bugouts, DOD views citizen army.

12 Book Reviews
Disguise yourself, sharpen all edges, know Commando daggers.

14 Survival Self-Test
How are foods preserved at home? Take the quiz.

16 The Cuban Connection
Castro mounts a secret drug war against the U.S.

22 Survival Stuff
Products that may be needed one day soon.



Page 48

24 Galil 7.62 NATO
User-friendly firepower from the Israeli Army.

29 Civil Defense
American CD group seeks building funds.

30 Survival Self-Survey
Emergency readiness: How do you and your family rate?

34 SailSafe
These sailboats are equipped for nuclear disaster.

38 Ju-Jo
The 'flexible stick' is a key ring or multi-purpose arm.

43 Computerphobia
How to overcome ignorance for future survival.



Page 56

48 Asian Martial Arts
From the survivalist viewpoint, 'bujutsu' arts are most effective.

52 Life-Tool
A wallet-sized survival system offers many uses.

53 Blockbuster Bonanza
American Survival Guide's Blockbuster Bonanza for '85.

56 Panzer II
This modern version of a medieval weapon is silent, powerful.

74 Advertisers Index
Here's where to look for the equipment you need.

75 Gascan
A fuel/water container that's built for durability.

76 Bali-Song
Fluid transition from blunt weapon to deadly knife.

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TO THE POINT

Where did that wall between you and survival knowledge come from? . . .

IS THERE A WALL between you and information—the news, important facts, knowledge you will find eminently useful in your future struggle for survival? If so, where did that wall come from? Who built it? And why? The wall of which I'm writing is invisible, yet as hard to penetrate as stainless steel. I see evidence of the wall every day.

I built my wall in this way:

Mornings, I read the newspapers, spend hours with them, gleaning survival bits about terrorism, toxic wastes, military matters, international politics, urban crime—and the comics. To a degree, this daily newspaper reading became my only source for much of the hard information I received. I had other sources available, but I didn't use them.

For example, *Smithsonian* and *Newsweek* would arrive in the same mail. My choice would be *Smithsonian*, with its colorful illustrations and easy-to-read features about non-essentials, while *Newsweek* remained unread. This became a brick in my wall.

And there's television, particularly current movies on cable. I like film fiction. The flicks are fun to watch, each taking up a couple of hours of evening time. It's really easy to come home from riding herd on this magazine, eat supper, and fall into an adventure fantasy. Clint Eastwood may make my day, sure, but what I learn from film entertainment is nothing. About 10 or 11 o'clock it's crash time, because 5:30 a.m. comes early. A few more granite blocks have gone into my wall—by my own choice.

Yo hablo Espanol. I speak Spanish. Awhile back, I used to hone my Spanish vocabulary daily by listening to language instruction tapes from my truck's cassette player as I drove to work. Somehow, somewhere, this language learning fell by the wayside, perhaps because it's easier to switch on the radio—which requires no pronunciation responses, no thought, as does an instructional tape. I should be keeping up on my Spanish because about 20 percent of the population here speaks that language only. My failure to do so is just another timber in that growing wall.

What's wrong? Am I lazy? Nope! I put in a good day's work for Tom McMullen. Am I too tired? No to

that, too. If I can watch movies, I'm not too tired to do something else that would increase at least tenfold the flow of valuable survival information into my brain.

Go back to the second sentence of the paragraph above and take another look. Am I *lazy*? On introspection, I'm forced to answer truthfully, "Yes!" At least I had become lazy in my free time—*Smithsonian* over *Newsweek*, television over textbooks, easy over difficult, nothing over something of substance, ignorance over knowledge.

I thought to myself, "Is this me?" Here's the individual who used to relish studying for exams, the achiever who earned A's with extra work on term papers, the guy who once liked to take correspondence courses just for fun.

My invisible wall against information, perhaps against *thinking*, had grown to battlement size, in my mind larger than China's Great Wall. Once I recognized that the wall had become high and thick with stones and mortar of my own laziness, I instituted a campaign to tear down this barrier to knowledge.

The first chip, of course, was recognition that I had become a televiewer for entertainment, rather than a reader for information.

The second step was to regain control of my free time lifestyle, and to redirect what sorts of information go into my mind. As computer people say, "Garbage in, garbage out." I don't want garbage in my head.

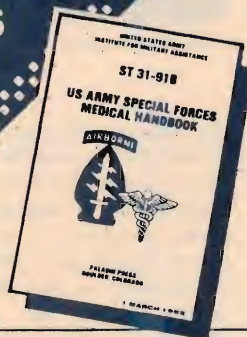
Right now, I'm enrolled in a course at a local college. It's tough—four hours of class on Monday nights. There are difficult homework assignments, a term paper and chapters to read, along with questions to answer in the study guide.

But, I want you to know that I feel really *good* about myself! You *can* teach an old dog new tricks! Just by going to class, my enthusiasm for learning has returned, stronger than ever. My self-esteem has regenerated. Because the knowledge I am gaining will stand me in good stead in any survival crisis, this learning is doubly valuable. My wall is shrinking.

Take a look around yourself. If there's a wall, tear it down. Start today. You'll truly enjoy the process.

—Dave Epperson

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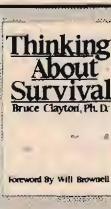


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by Bruce Clayton, Ph.D.
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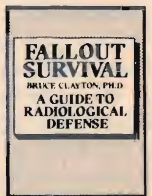
by Duncan Long

The AR-15/M16, the inspiration for so many modern assault rifles, is covered herein in this definitive book. Should you wish to build your own or convert it to auto fire, Duncan Long supplies you with parts and tool lists and detailed step-by-step instructions. Virtually any accessory you may wish to buy for your AR-15 is listed. Invaluable to the M16 owner, this comprehensive book also covers assembly and disassembly, conversion kits and modifications, troubleshooting, ammunition, combat use, lubrication and more. 8 1/2 x 11, softcover, photos, 168 pp. **\$14.95**

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MAIL CALL

Alternative Fuel

I recently picked up your February, 1985, issue and I read the letter from R.F. from Phoenix. I would like to present a problem and a solution to another aspect of the survival vehicle. In any sort of conflict where limited nuclear exchange or enemy occupation are a fact, what about fuel? If a city is destroyed—no fuel. Enemy occupation—fuel will eventually run out, and production will be reduced or non-existent. May I suggest the use of alcohol as a fuel? It can be distilled from vegetables grown in a small plot, and simple equipment is needed. Alcohol has always been a useful trade item as well. There are two sources that I know of for distilling manuals that are simple, straight forward and inexpensive: *Moonshine Making Manual* (Gourmet Press, Philadelphia), and *How To Make Moonshine* (Cookbook Publishers, Inc., Kansas City, Kansas).

John Tooker
Calgary, Alberta
Canada

Methanol, ethanol and methane gas all can be produced more or less easily to fuel internal combustion engines. The survivalist must know how to build a still, or methane generator, and what vegetable materials make the best fuels. He who keeps cows can always fuel his tractor.

One Good Hand

A few months ago I was injured in an accident at work. I cut my hand badly. It was in a cast for some time and still isn't quite right. This hasn't hindered me from taking to the woods from time to time, but I've learned something of vital importance when it comes to survival rifles. I would consider myself to be the lone survivalist type—always on the move. I own three rifles, an HK 91, an AR-15 and a CAR-15, and I've used all three over the months. I would give some advice to others when shopping for rifles and gear. One should consider what would happen if one had use of only one hand. Could I carry, hunt and use it to protect myself with only one good hand? I learned that the AR-15, especially the CAR (a shortened version of the AR-15) is much easier to handle, grip, clean, hunt with and shoot with one hand. Try that with an HK. Also, I think you should devote an entire issue to survival kits and supplies, weapons and gear, for the lone survivalist on the move. And what about winter gear and clothing?

Name and Address Withheld

A couple of years ago, one of our staff had his hand in a cast after some reconstructive surgery to his left hand. He went shooting with his HK 91 anyway, and discovered he could operate it, even with the fiberglass fist on the left side. The bipod helped, and a T-handle on the charging/cocking rod really helped. The AR- and CAR-15, though are .223s, hence have softer main-springs and are easier to cock. The HK is a .308, with considerably more authority. Apples and oranges, don't you think?

Insurance

There is an aspect of self-reliance and survival that is seldom mentioned, but is of paramount importance, especially to prevent burnout. I will cite an example: At some point people will discover that life and liberty are not as secure as once assumed. They see things happening that could lead to disaster. Nuclear war, economic collapse, natural disaster, etc. Anticipating this, they make preparations to survive it. The initial response is sometimes frantic. After a period of time (months or years), the expected disaster fails to appear and, subsequently, the person secretly hopes for it, or may abandon preparations. This is the pitfall. My solution is insurance. One purchases the insurance so one can feel some security. So one doesn't have to worry about being wiped out in case of a fire, and one's loved ones are at least financially taken care of in case of a death. Survival preparations need to be looked at like insurance in this respect. You purchase long-term physical security and short-term peace of mind. Your money is well spent, if disaster never appears.

Lon Schultz
Fort Smith, Arizona

Putting by food, water, medical supplies, heating/cooking equipment, and clothing never hurt anyone, Lon. It's called being prepared, which, essentially, is what survivalism is all about.

Survival CB

A national survivalist channel on CB radio is the most ridiculous idea that has come along lately. Other good causes have implemented such programs with very limited success, to say the best. One that immediately comes to mind is the "Good Sam Club" sponsoring channel 13 for use by RV owners. Just hit the road and try to raise one of those folks on CB 13, even

(Continued on page 64)

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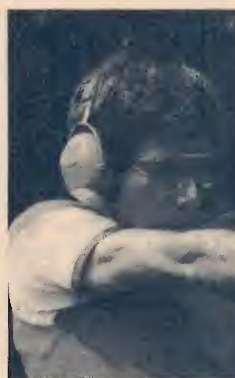
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SURVIVAL LINE

*CD funding is cut, plans change,
deja vu, and escaping to freedom . . .*

AFTER A NUMBER of years of steadily increasing funding for civil defense, the proposed 1986 budget shows a sharp cutback in funding.

The 1984 civil defense budget was \$169 million, followed by an increase to \$181 million in fiscal 1985. The budget proposal for 1986 shows a cutback in civil defense funding to \$119 million.

In addition, a sharp cutback in federal funding of state emergency planning operations is also part of the 1986 budget proposal. The federal government currently pays the entire cost of each state's emergency planning operations. The new budget calls for a 50 percent cutback in assistance for state emergency planning.

Relocation/Evacuation—Early in the first Reagan administration, attempts were made to begin building a counter to the Soviet ability to evacuate its population centers in times of crisis or threatened war. The Crises Relocation Plan (CRP) as it was known, was an attempt to establish pre-arranged "host" areas for the large numbers of people who would be forced to leave target areas and cities in the event of an evacuation order.

Doomies and disarmament activities denounced the program. These groups insisted that evacuation of cities would be impossible.

What happened to CRP? Sadly the doomie view seems to have won in a large number of areas. Gubernatorial and legislative refusal to participate in the CRP program has left virtually millions of people to fend for themselves. The states of New Mexico, Wisconsin, and Massachusetts were prohibited by their governors from taking part in CRP. The legislatures of Maryland and California likewise prevented their states' participation in the program. Local jurisdictions, among them New York City, Philadelphia, and Cambridge, Massachusetts, also voted not to participate. Most of these votes came after intense pressure was applied to legislators by the doomie lobby.

In an effort to salvage at least some of the program, FEMA officials have dropped "Crisis Relocation," in favor of a more general approach. New plans, called "population evacuation" will be geared for all types of disasters, not just nuclear war.

Deja Vu—"Survival Line" reported in the March, 1985, issue of *American Survival Guide* that the British Labor party had voted to adopt a policy of unilateral nuclear disarmament.

In a monkey-see, monkey-do response, another significant political party of a major U.S. ally, the Social Democratic party of the Federal Republic of Germany, seems close to adopting this policy.

The Social Democrats have already come out in favor of removing the new U.S. missiles from Germany. There is now a significant push from within the party to ban all nuclear weapons from German soil.

Teach Your Children—Idaho is among the latest of a growing number of states which already is or is considering, making it easier for parents to teach their children at home.

Survivalists long have been aware of the need to familiarize themselves with the techniques required to assume the role of teacher should the system break down.

Currently there are 35 states which have provisions for home schooling, and an estimated 1 million children being educated at home by their parents.

Citizen Emergency Army—The Pentagon is not releasing very much information about a new study which calls for the creation of a network of "state defense forces." These forces would be made up of armed citizen volunteers, and would be activated in the event of overseas deployment of National Guard units. The defense forces would be under control of state governors, and would be deployed to maintain order within cities and counter terrorist threats.

Survival and Escape—Americans who are survivalists are more aware than most of the value and worth of their freedoms.

Many of those trapped behind the Iron Curtain are also aware of those freedoms. In making a bid for freedom, these people often undergo incredible survival ordeals. For example, Carlos Saaverda, last year fled the Cuban workers paradise. He swam and floated on an inner tube for 8 days in an attempt to reach the U.S. When found by a U.S. fishing boat Saaverda was dehydrated, sun scorched, and covered with the stings of jellyfish—and free.

Another daring escape was made by Robert Hutrya, his wife and two children. They built and flew a homemade hot-air balloon from Czechoslovakia to Austria.

Two other Czech citizens were not as lucky. The bodies of a mother and daughter were found by Yugoslav authorities after both drowned in an attempt to swim to freedom across the Mur river. Two other sisters, aged 15 and 3 years, succeeded in swimming to Austria and freedom. ●

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BOOK REVIEWS



Disguise Techniques, Fool All of the People Some of the Time, by Edmond A. MacNaugh; Paladin Press, P.O. Box 1307, Dept. ASG, Boulder, CO 80306; 88 pages paperback; \$8 plus \$3 postage and handling.

There are countless disguise possibilities to suit every situation, the author tells us. But he is not talking about just physical disguise. "The art of psychological disguise . . . lies in making oneself 'invisible' in a particular situation. The disguise artist develops the chameleon-like ability to blend into his surroundings so well that he cannot be seen as a separate entity . . . The best disguise, as we shall see, does not always require a costume." The author explains that "not-being" is a state of mind. For example, think of the way you tried to make yourself unnoticed in school when you didn't want the teacher to call on you because you didn't do your homework. In the chapter on disguise preparation, MacNaugh asks the readers to observe themselves carefully, possibly with the aid of a video tape or tape recorder, and then "figure out what you could change in your behavior that would make you seem like a different sort of person, and experiment . . ." This section also provides a self-examination quiz on "how you come across" to others. Then he goes into some specific techniques of physical and psychological disguise, and even discusses disguising your car, office and home. He points out that how one acts is as important as what one wears to disguise oneself. There is also explanation of disguise equipment such as makeup and wigs. The book is quite informative for those who wish to change their appearance—physically as well as behaviorally.



The Razor Edge Book of Sharpening, by John Juranitch; Warner Books, P.O. Box 690, Dept. ASG, New York, NY 10019; 145 pages, paperback; \$12.50 plus 50 cents per order and 50 cents per copy for postage and handling.

Here at last is a book on edges and sharpening, from a family owned company with more than 30 years of study and experience in the sharpening field. John Juranitch, founder and president of Razor Edge Systems, Inc., of Ely, Minnesota, began studying this subject as a barber in the Army in 1951 and has continued ever since. The company sells sharpening equipment and assists meat packing plants in keeping knives sharp for maximum efficiency. In this "first book ever written on sharpening and edge-related subjects," Juranitch covers basic aspects of sharpening: relief, "the most important thing in sharpening"; sharpening angle; hones; use of oil; "steeling" a blade; serrated edges; and stainless versus high carbon steel cutting implements. Included is instruction on sharpening techniques, and chapters on sharpening the folding knife, ax, plane, arrowhead, skinning knife, ice auger, fishing hook, scissors, sheath knife, chain saw and adz.

Commando Dagger, The Complete Illustrated History of the Fairbairn-Sykes Fighting Knife, by Leroy Thompson; Paladin Press, P.O. Box 1307, Dept. ASG, Boulder, CO 80306; 164 pages, hardcover; \$25 plus \$3 postage and handling.

For the first time, practically all the known models, successors and imitations of this "most famous fighting knife of modern times" are included under one cover, according to the forward. Capt. William Ewart Fairbairn and Capt. Eric Anthony Sykes, pioneers in development of close-quarters fighting techniques dating from

(Continued on page 69)



SURVIVAL SELF-TEST

By Glenn A. Anderson

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Dehydration is man's oldest known means of food preservation. This month's Self-Test has been developed from *Home Food Dehydration*, by emme Wheeler, Wheeler Enterprises, published by Craftsman and Met Press, Seattle, Washington. The Self-Test contains a

range of questions concerning the selection, preparation, dehydration, packaging, and reconstitution of produce. Test yourself, then obtain a copy of *Home Food Dehydration*, and study those areas in which this Self-Test has revealed your weaknesses.

1. The dehydration of food makes possible the preservation of:
 - A. Substance only.
 - B. Substance and flavor.
 - C. Substance, flavor, and vitamins.
 - D. Substance, flavor, vitamins, and color.
2. A natural draft dehydrator may be considered preferable to a forced air dehydrator because of the latter's:
 - A. Tendency to dry too rapidly.
 - B. Waste of fuel and energy.
 - C. Expense to purchase.
 - D. All of the above.
3. The trays in a food dehydrator should be:
 - A. Perforated.
 - B. Permeated.
 - C. Permuted.
 - D. Percolated.
4. When if ever, should leafy vegetables be harvested for dehydration?
 - A. During a full moon.
 - B. In the coldest part of the day.
 - C. After they have begun to yellow.
 - D. Never.
5. A vegetable may be blanched prior to dehydration for the purpose of:
 - A. Stopping enzyme action.
 - B. Protecting nutrients.
 - C. Speeding drying time.
 - D. All of the above.
6. One of the main drawbacks to sun dehydration lies in the:
 - A. Loss of color in the produce.
 - B. Case hardening of the produce.
 - C. Subjection of the produce to contamination.
 - D. Substantial loss of bulk in the processing.
7. Of the following, which temperature would be the most satisfactory for dehydrating most foods?
 - A. 200 degrees F.
 - B. 150 degrees F.
 - C. 100 degrees F.
 - D. 75 degrees F.
8. Which phrase best describes produce which is ready for dehydration?
 - A. Ready to eat or use.
 - B. About to reach maturity.
 - C. A little over ripened.
 - D. Slightly green or tart.
9. When preparing produce to be dehydrated, you should remember:
 - A. The smaller the slice, the slower the dehydration.
 - B. The smaller the slice, the faster the reconstitution.
 - C. The larger the slice, the faster the dehydration.
 - D. The larger the slice, the faster the reconstitution.
10. What effect, if any, does dehydration have on the nutritive value of fruits and vegetables?
 - A. A significant loss of proteins.
 - B. A moderate loss of carbohydrates.
 - C. A slight loss of carotene and ascorbic acid.
 - D. Absolutely none.
11. Fruit which is to be dehydrated into "leathers" should first be:
 - A. Crushed.
 - B. Sliced.
 - C. Diced.
 - D. Pureed.
12. What can be added to the steam blanching process to help avoid food discoloration?
 - A. Sodium bisulfite.
 - B. Sodium chloride.
 - C. Sodium benzoate.
 - D. Sodium salicylate.
13. One way to prevent the loss of Vitamin C in produce to be dehydrated is by:
 - A. Sulfuring.
 - B. Waxing.
 - C. Ripening.
 - D. Soaking.
14. Blanching fruit in hot syrup prior to dehydration would have what effect on the finished product?
 - A. It would be lighter.
 - B. It would be sweeter.
 - C. It would be softer.
 - D. It would be crystalized.
15. Dehydrated produce stored in glass jars should be:
 - A. Scalded for 2 minutes.
 - B. Pressure cooked at 150 degrees F.
 - C. Boiled at 110 degrees C.
 - D. Processed in a 225 degree F oven.
16. Produce which has been dehydrated at low temperatures should not be stored longer than:
 - A. A month.
 - B. Three-five months.
 - C. Six-nine months.
 - D. A year.
17. Dehydrated produce should be reconstituted in as little water as possible because:
 - A. They will otherwise explode.
 - B. They will otherwise go soggy.
 - C. Vitamins B and C are water soluble.
 - D. Too much water weakens the fibre.
18. One pound of dehydrated white potatoes will yield about how many pounds of reconstituted product?
 - A. 3.
 - B. 5.
 - C. 7.
 - D. 9.
19. When reconstituting dehydrated food, most produce will reach it's maximum increase in volume within:
 - A. 30 minutes.
 - B. 1 hour.
 - C. 4 hours.
 - D. 8 hours.
20. While checking a glass jar filled with dehydrated fruit slices, you notice a little mold on one of the slices. What, if anything, should you do?
 - A. Scrape off the mold, pasteurize the fruit slices.
 - B. Discard both the jar and its contents immediately.
 - C. Discard the contents, scald the jar in 225 degree water.
 - D. Nothing.

SCORING:

For each Survival Self-Test question answered correctly, score yourself 5 points. Then add them up. If your total is:

Below 70 Plumb soggy.

70-80 Wet behind the ears.

80-90 Moderately moist.

90-100 Dry it, you'll like it!

ANSWERS:

- | | | | | |
|------|------|------|-----|-----|
| 20-A | 16-C | 12-A | 8-A | 4-B |
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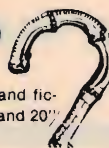
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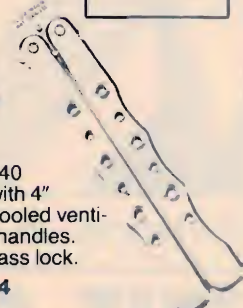
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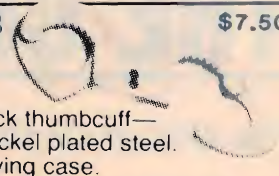
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THE CUBAN CONNECTION

The DGI is Castro's secret weapon against the United States . . .

By Ryan Quade Emerson

The author is president and executive director of the International Research Center on Terrorism, 2520 Columbia Pike, Suite 207, Dept. ASG, Arlington, VA 22204. The Center publishes the Terrorist Intelligence Report twice monthly. A non-profit organization, the Center is not affili-

ated with any political party, association or government agency. The Center reveals no information that would be prejudicial to the United States of America. Ryan Quade Emerson also is the author of the book Who's Who In Terrorism, United States and International, priced at \$15.

AN ORGANIZATION is assigned to destroy the United States of America from within. This organization is the *Direccion General de Inteligencia* or, in English, Directorate General of Intelligence (DGI). It is owned by Cuba's Fidel Castro, and operates under the direction and control of the Soviet Union's intelligence and dirty tricks department, the KGB.



LEFT—This Cuban drug smuggler was seized and arrested by U.S. Coast Guardmen and U.S. Marshals off the Florida Coast, only one of too few.

BELOW—Carlos The Jackal (Ilich Ramirez-Sanchez) was trained at DGI schools in Havana, Cuba. He is a terrorist who has been active in Europe.



ABOVE—This is Raul Castro, Fidel Castro's brother, and liaison between the Soviet KGB and the Cuban *Direccion General de Inteligencia* (DGI).

ize in terrorism and guerilla warfare. Some 140 of the new spies were to be stationed in Cuban embassies around the world, and in the United Nations' headquarters in New York City. The DGI established a special training unit to concentrate on sabotage, espionage and terrorist operations against the U.S.

The training was intense and included terrorism, urban guerilla warfare, firearms, barehanded killing, the "art" of torture, how to start a riot, and techniques of espionage. The DGI was given as its primary responsibility clandestine operations in the U.S.; but, it was divided into a total of seven separate divisions which include the 50,000 Cuban military and insurgency advisors that are in Africa today.

Drug Strategy—Included in Col. Simenov's final briefing at KGB headquarters in the Kremlin was a lengthy discussion of the strategic use of international trafficking in narcotics. Since about the time of the Korean war, Soviet intelligence had been giving a great deal of attention to how illegal drugs could be used to the Russian's advantage in plans for world subversion. Detailed studies were made, with a great deal of emphasis on the predisposition of Americans to use drugs. Later, when the U.S. became involved in the wars in Southeast Asia, the KGB was delighted when the Chiu Chow Chinese heroin syndicates of Hong Kong and Bangkok combined forces with Huu Tim Heng who was, at the time, Vientine manager for both Pepsi Cola and Esso Oil.

Heng, working in concert with the commander-in-chief of the Royal Laotian Army and senior commanders of South Viet Nam's air force, exported enough No. 4 heroin to Saigon that, by the middle of 1971, 10 to 15 percent of the 500,000

American troops in Viet Nam were using the drug.

In 1968, the Soviets were supporting the Castro government to the tune of \$1 million a day, and the Kremlin saw an opportunity for Castro to pay some of his own bills and further increase the domestically destructive drug culture in America.

Terrorists, Too—The major role of the Cuban DGI in the Soviet master plan for the eventual conquest of the Western Hemisphere was to train and arm as many terrorist groups as possible in the countries that had been targeted for subversion and political destabilization. Arms were no problem. Through the benevolence of the Soviet-controlled communist bloc nations, Castro has always received large quantities of military hardware such as the popular

'The DGI is owned by Castro, and operates under direction of the Soviet KGB . . .'

Russian-made Kalashnikov AK 47 assault rifle, Makarov pistol, and RGD-5 anti-personnel hand grenade. From Czechoslovakia came the VZ 58 V assault rifle and the Skorpion VZ 61 machine pistol. There was also the endless supply of the American manufactured M60 machine gun and M16 rifle that were left behind in Viet Nam.

The three KGB generals now stationed permanently in Havana, Cuba, realized that the various Latin terrorist groups had easy access to billions of dollars worth of cocaine and marijuana. The decision was made. There would be no more free

After Castro completed his revolution and delivered his country into the hands of the Russians, one of the first orders of the new government's business was to create a secret police, and the DGI was born.

In the beginning, the Czechoslovakian secret police was placed in charge of recruiting and training agents for the DGI; but, in 1968, KGB Colonel Victor Simenov arrived in Havana to take full command of the Cuban spy unit. Before Col. Simenov left Moscow, the direct responsibility for operating Cuban intelligence was given to Department II of the KGB, which is the same unit that controls the Czechoslovakian, Polish and other European Soviet-directed intelligence agencies.

Fidel's brother, Raul Castro, went to Moscow where he was told that the DGI, under Russian supervision, was to be increased to 2,400 agents as soon as possible, and that 400 agents were to special-

THE CUBAN CONNECTION

weapons of war. Rifles and bullets would be traded for drugs. Everyone in Moscow and Havana was pleased with the arrangement, and so were the terrorists.

Soon detailed reports from the American intelligence and law enforcement communities were being sent to Washington, D.C., warning of the Castro drug connection; but, high-ranking government officials chose to ignore the information. Years later, the U.S. would suffer terribly for this gross incompetence on the part of the nation's leadership.

Black Riots—In the meantime, the DGI was busy with other projects that were to bring death and destruction to communities throughout America. In the late 1960s, the black ghettos of the U.S. erupted into flames and violence in what appeared to be a spontaneous protest. The massive riots did not really need instigation by outside elements, yet once the conditions were ripe, American communist revolutionaries moved in—funded and supported by the Cuban DGI.

One such revolutionary was Philip Luce, who is now an outspoken critic of the communist form of government. While in Cuba, Luce met personally on a number of occasions with Fidel Castro in company with other Americans who were in his group. Luce stated in an interview that Castro and the DGI had given him and his associates \$20,000 to use for the express purpose of terrorism in the United States. Luce said, "We were engaged in tremendous riots in Cleveland, Los Angeles, and a number of other major cities. Agitation at that juncture was vital, not only to our cause, but to the cause of Cuba. We trained Americans in the use of weapons. We showed people how to stand on top of their tenement buildings in New York or elsewhere and throw down garbage cans filled with bricks. We also taught them how to make Molotov cocktails."

Luce also told how the DGI agents in the United States had given his group money to send other young Americans to Cuba to be trained in terrorist and intelligence activities. The young Americans Luce talked about were formed into a brigade known as the "Venceremos."

Larry Grathwohl, Luce's friend and companion during the Cuban experience, stated, "The Venceremos Brigade was established with the sole purpose of providing a cover for the Weathermen (an American communist terrorist organization) to get their people to Cuba for training and that's why it existed. As a matter of fact, when our people came back off the first Venceremos Brigade in, I think it was February 1970, the main criticism that the Cubans had made about the Brigade members was that the majority of people being sent there (to Cuba) were useless in helping harvest the sugar cane crop, but the ex-

pense was justified in the sense that it was a means to train American terrorists."

The Link—In 1984, the Cuban link to the \$80-billion-a-year narcotic market in the U.S. finally was covered in a very limited fashion by the news media through the criminal indictment of Jaime Guillot-Lara and a number of his associates.

Those who were indicted by a Miami Federal Grand Jury were:

- Rene Rodriguez-Cruz, a senior official of the DGI and a ranking member of the Cuban Communist Party Central Committee. It was he who helped organize the Cuban boatlift to the United States.

- Aldo Santamaria-Cuadrado, a Vice-Admiral of the Cuban Navy and a member of the Cuban Communist Party Central Committee. He is charged with having supervised the protection and resupplying of ships transporting drugs from Colombia to the United States by way of Cuba.

- Fernando Ravelo-Renedo, a former Cuban Ambassador to Colombia, and Gonzalo Bassols-Suarez, a former minister-counsel of the Cuban Embassy in the Colombian Capital and a member of the Cuban Communist Party. The Cuban officials were charged with acts specifically aimed at facilitating the importation of

'A great deal of emphasis was on the predisposition of Americans to use drugs . . .'

drugs into the United States and at circumventing the interdiction efforts of the United States.

- In addition to the Cuban officials, two other indicted defendants still remain fugitives, Jaime Guillot-Lara and Julian Losada. Jaime Guillot-Lara was located, arrested and held in a Mexican jail, based on an earlier U.S. narcotics indictment. However, the Mexican Government released him and he disappeared.

Fugitives—Guillot-Lara is believed to have fled to Nicaragua. He and the other Castro aides remain fugitives from justice. During an interview with Colombian journalists in October 1982, Fidel Castro described Guillot as, "a good friend of Cuba."

Jaime Guillot-Lara, a Colombian national, is a major marijuana, cocaine and methaqualone trafficker whose drug activities have been known to the United States' Drug Enforcement Administration (DEA) since at least 1976. He is the documented owner of, or has interest in, many seagoing vessels capable of carrying tons of marijuana. A total of 2.5 million pounds of marijuana, 25 million methaqualone

tablets and 80 pounds of cocaine were documented as having been sent to the United States by Guillot-Lara from 1977-1981.

Chain Conspiracy—In his testimony on April 30, 1983, U.S. Attorney Stanley Marcus testified that the Guillot-Lara case involved testimony and corroborative evidence of what is defined in legal jargon as a "chain conspiracy," that is, a conspiracy beginning with the growers and drug merchants in Colombia, continuing through the middlemen and exporters, to shippers and ship crews, including ranking officials of the government of Cuba, who agreed to allow Cuba to be used as a loading station and source of supplies for ships transporting and smuggling drugs into the United States; to crew members and off-loaders from the U.S. who pick up drugs from ships off the United States' coast; to warehousemen who store the drugs in the United States; and finally, to distributors who sell the drugs wholesale and retail on the streets of the U.S. Some of the drug smugglers in this chain conspiracy were motivated by politics, some were motivated by power, most were motivated by greed and some were motivated by a combination of all of these factors.

The evidence introduced at the trial came primarily from three witnesses: Juan Crump, David Perez and Mario Estevez Gonzalez.

Crump is a Colombian lawyer and narcotics trafficker who acted as middleman between Jaime Guillot-Lara and ranking officials of the Cuban government who permitted him to send narcotics ships through Cuban waters to evade the U.S. interdiction effort. These same Cuban officials reprovisioned these drug-laden ships from Cuban ports. Crump was close friends with the Cuban Ambassador to Colombia, Fernando Ravelo-Renedo, and his Minister-Counselor Gonzalo Bassols-Suarez. These two Cuban officials opened the door to other officials necessary to make the supply line work.

David Perez, the second witness, is a Cuban-American drug trafficker who arranged to pick up the drugs off the United States' coast and distribute them through South Florida.

Mario Estevez Gonzalez, the third witness, is a Cuban government agent who infiltrated this country during the Mariel Boatlift in 1980. On instruction from Cuban government officials, he trafficked in narcotics in this country and delivered drug proceeds back to his Cuban control officers.

The evidence adduced at trial revealed that late in 1979, Crump met with Ravelo (the Cuban Ambassador to Colombia), Bassols (his First Minister), Rene Rodriguez-Cruz, president of the Cuban Institute for Friendship with Peoples, (*Instituto Cubano De Amistad Con Los Pueblos*, or ICAP) and Guillot-Lara. At that meeting, Guillot-Lara first asked if he

could use Cuba as a landing and resupply station for his drug boats and planes. Between March and July of 1980, Crump continued his negotiations with Ravelo, Bassols, Guillot-Lara and others. Finally, the Cuban Ambassador indicated to Crump that he, Ravelo, had received permission from Havana to land drug boats in Cuba. The Cuban officials and Crump worked out a procedure to insure Cuban naval protection for these narcotics vessels. Guillot-Lara's boats would use the name "Viviana," the name of Crump's baby daughter, as a code to indicate to the Cuban Navy that the drug boats should be allowed to proceed in Cuban waters, be protected and resupplied. Crump went to Havana, Cuba, on August 4, 1980, and visited Rene Rodriguez-Cruz, to confirm the procedure agreed to by Ambassador Ravelo.

American Buyers—During the same time period the Cuban connection was being worked out, Jaime Guillot-Lara was meeting with David Perez to arrange for the off-loading of Guillot-Lara's drug boats in the Caribbean. Perez agreed to receive drugs sent by Guillot-Lara from Colombia through Cuba to the United States where Perez would find American buyers. Perez testified that he sent off-load boats and crews to the area of Guincho Key, about 16 miles off the north central coast of Cuba. The off-load boats were to pick up approximately 10 million methaqualone tablets and multi-ton loads of marijuana from the mothership, Viviana, hiding in Cuban waters. The off-load boats were then to take the drugs to the area of Riding Rocks in the Bahamas, where speedboats would take the drugs into South Florida.

A variety of problems developed as the plan unfolded. Perez testified that he was forced to go to Guincho Key himself when two of his off-load boats met with mishaps. One ran aground and the other never arrived. Perez went into Cuban waters in the area of Paredon Grande in November, 1980, aboard a boat called the Lazy Lady, a ship owned by Hector Gonzalez-Quinones, a Cuban Government agent, then known as Frank Bonilla, and captained by another Cuban government agent, Mario Estevez Gonzalez, who was a key witness at the trial.

The evidence disclosed that upon entering Cuban waters, the Lazy Lady was escorted by two Cuban gunboats to Paredon Grande where they anchored next to Guillot-Lara's drug boat, the Viviana. Hours later, Perez, Bonilla and Estevez were separately taken aboard a 72-foot shrimp boat where Perez was welcomed by two Cuban officials he later identified as Aldo Santamaria-Cuadrado, Vice Admiral of the Cuban Navy, and Rene Rodriguez-Cruz, the Cuban President of ICAP. When Perez acknowledged to Rodriguez-Cruz that the Viviana was carrying a methaqualone shipment, Rodriguez replied he

was "happy" that Perez was bringing so many drugs into the United States. Perez testified that he had several conversations with Rene Rodriguez-Cruz during the three days they were in Cuban waters waiting for the Lazy Lady to be repaired and that he was told that some of the money used to purchase the drugs in Colombia was provided by the Cuban government.

Perez further testified that he understood from conversations with Jaime Guillot-Lara that the Cuban government expected to receive approximately \$800,000 from the sale of 10 million methaqualone pills and approximately 23,000 pounds of marijuana.

The third witness was Mario Estevez-Gonzalez, the captain of the Lazy Lady. He testified at trial that he was an agent of the Cuban government, first sent to the U.S. in 1980 in the Mariel Boatlift to infiltrate the anti-Castro, Miami-based, group known as "Alpha 66." Later he was instructed by his superiors in the Cuban Ministry of the Interior to infiltrate the drug dealers ring in the Bahamas and learn how to buy and sell drugs in the U.S. Estevez's control officer told him, "It is important for us to fill the United States with drugs." Estevez explained how he came to captain the Lazy Lady to Paredon Grande.

'Latin terrorists have access to billions worth of cocaine and marijuana . . .'

He testified that his Cuban government control officer ordered him to go to Bimini in the Bahamas in late September or early October 1980 to meet with the Cuban government agent known as Frank Bonilla, the owner of the Lazy Lady. Bonilla ordered Estevez to captain the ship, with Perez on board, to Guincho Key where they were to meet the Viviana. The reason for this trip was that they could not locate the two off-load boats Perez had originally sent out. At Guincho Key, approximately 16 miles from the Cuban coast, the Lazy Lady developed engine trouble and was forced to go to Paredon Grande in Cuba where the mothership, the Viviana, was anchored.

Estevez also testified that he, Bonilla, and Perez met with Rodriguez, Aldo Santamaria Cuadrado, and two high-ranking members of the Castro government who were safeguarding the 10 million methaqualone tablets on the mothership, Viviana. Estevez testified that Santamaria introduced himself as Rene Baeza Rodriguez and joked about Estevez's drug smuggling. "He touched me, put his hand on me and said to me, 'Finally, you're going to have a pharmacy in Miami . . .'"

Cocaine—Estevez said that, acting upon orders from his Cuban government control officers, he smuggled cocaine into the United States and carried more than \$2 million in proceeds from cocaine trafficking back to Cuba.

In February, 1982, Gerardo Peraza, a former senior official of the DGI, gave a lengthy statement to U.S. government investigators.

Peraza said that on one occasion he had been sent to London, England, on an assignment and that prior to his departure he had been required to discuss his operational plans with Col. Simenov, who controlled the expenditure of funds for DGI operations. Before 1970, intelligence plans were approved by the Cuban chief of intelligence. After 1970, the DGI budget was prepared by Simenov, and was sent to the Soviet Union for approval.

Before 1970, Cuba lacked adequate resources to mount a major intelligence offensive against the United States. However, in 1970, with financial resources furnished by the Soviet Union, the DGI was able to recruit about 100 intelligence officers in two weeks.

A substantial amount of Soviet money was used to buy vehicles and technical equipment and to pay for the expenses of placing the agents. In effect, the DGI now had what amounted to an unlimited budget.

Each of the 100 intelligence officials who left Cuba in 1970 for assignment abroad had to provide a copy of his infiltration plan to a Soviet officer. In addition, the DGI officers had to provide Soviet officers with the true names of all their agents working in the U.S. Prior to that point, only the pseudonyms of the agents had been provided to the USSR.

Peraza also stated that the DGI is in no way a partner of the KGB; it is a subordinate entity, taking its direction from agents of the Kremlin.

Peraza said that, in exchange for financial support of its intelligence apparatus, Cuba was required to direct its operations toward collection of intelligence information of interest to the Soviet Union. This included intelligence, military, economic, and political matters. According to Peraza, the Cubans were more readily able to obtain this type of information than were the Soviets, for the Cubans were not so easily detected.

Peraza said that during the late 1960s and early 1970s, the DGI exploited weaknesses it perceived in the U.S. intelligence community to install agents in the United States. He further indicated that the U.S. could not detect that activity and that all Cuban intelligence forces were ordered to prepare penetrations against the United States in any country in which there was an identifiable U.S. intelligence target.

He testified that DGI agents in Great Britain had the principal mission of spying on British citizens in order to penetrate the U.S. activities in the United Kingdom.

THE CUBAN CONNECTION

DGI operatives in Spain spied on citizens there, with the principal objective of penetrating the United States.

Peraza confirmed that even the Cuban involvement in Angola was seen primarily as a step toward the defeat of the United States, which is the ultimate and exclusive target of all Soviet and Cuban operations.

Peraza stated that he was personally aware of successful infiltration of high-ranking DGI agents into the U.S. Government. He claimed even the U.S. Senate had been penetrated.

'The chain conspiracy extends through growers, middlemen shippers and crews . . .'

Senate Testimony—At another time, Peraza testified before the U.S. Senate Committee on Terrorism the chairman of which was Senator Jeremiah Denton, who is a former long-term prisoner of the Viet Cong:

Senator Denton: "Would you describe the various departments of the DGI and their respective functions?"

Peraza: "Yes. The principal function of the Directorate of Intelligence was penetration and recruitment in the United States of America. Section 3 was the one which worked directly against the CIA. It worked with the principal center in New York; and the other centers in Canada and Puerto Rico . . ."

The Cuban service sent to the Soviet Union 25 intelligence officers, 20 to 25 officers for the illegal center, 30 officers of the military counterintelligence, for the internal counteringelligence service from 30 to 50 officers, and this is out of the country.

Within Cuba, you have the military counterintelligence school, with the Soviet officers who train officers of the military counterintelligence at the rate of about 200 officers per year. This military counterintelligence school is probably one of the most advanced counterintelligence schools in the hemisphere. It not only uses Soviet instructors, the school has instructors from the PLO and other terrorist organizations.

This school of military counterintelligence has been visited by the most famous terrorists in the world. For instance, Carlos, The Jackel, himself, that Senator Denton referred to, visited that school after having gone to the Patrice Lumumba School in Moscow, because that school has the capability to train a group, an individual, or a leader of the highest level, such as former President Allende of Chile who visited that school.

An Agent Talks—Peraza's statements about DGI operations were supported by the testimony of Special Agent Sergio Pinon of the Florida Department of Law Enforcement who reported the following:

Pinon: "A certain gunshop linked to Cuba has been involved in the illegal sale of guns and machine guns to foreign countries. Indictments of both Cubans and Americans have been obtained for conspiracy to deal, ship, and transport firearms from Miami, Florida, to foreign countries between August 1, 1979, and January 29, 1979, without being properly licensed. The firearms ultimately were sent to Nicaraguan leftist guerrillas. Information was also received involving a Russian agent who was involved in buying and shipping over 150 firearms to a leftist group attempting to overthrow the present government of Jamaica.

"On January 13, 1982, I assisted Special Agent Juan Perez of the Federal Drug Enforcement Administration in the recovery of two explosive devices. Upon arriving at the scene, we noted that the devices were two oval-shaped grenades, steel casing, smooth finish, with a seam in the middle—fully active explosives with unidentifiable content weighing 9 ounces each. The grenades were identified as being USSR RGD-5 hand grenades made in 1976. Intelligence sources reported that the grenades were brought into the United States by an alleged Cuban DGI agent who was also involved in smuggling narcotics via Cuba, from Colombia to Miami.

"According to sources, these grenades were part of a shipment of over 200 that were brought into the United States. Sources further indicated that the agent is involved with the M-19 Colombian terrorist organization and has taken shipments of weapons from Cuba to leftist guerrillas in El Salvador and Nicaragua. One source reported that the illegal profits of narcotics was being used to finance subversive and terrorist activities."

Senator Denton: "This testimony is mind-boggling to me, and I thought I knew something about terrorist activity in the United States. We have a case here of a man who is a DGI affiliate, if not an agent. He is engaged in teaching young Miami blacks to firebomb schools in the black community, and is also associated with an institutionalized effort in more than one university to recruit people not to sign up for the draft, is that correct?"

Pinon: "That is correct."

Senator Denton: "Reportedly, the Department of State has evidence that links the Cuban Government to drug smuggling activities in the United States. They cite the case of Jaime Guillot-Lara, a Colombian now in jail in Mexico who claims to have funneled arms and money to Colombian leftist groups in return for Cuban aid in smuggling marijuana shipments to the United States. Have you, in

the course of your investigations, come across evidence or information indicating that Cuba is actively involved in any way in drug smuggling into the United States? If so, would you please describe that evidence or information?"

Pinon: "Yes, Mr. Chairman. We have one source whom we arrested on narcotics charges. This source was involved, also, in the Mariel boatlift with subjects that we arrested. He has made several trips to Cuba. This same subject provided information advising us that narcotics trafficking was coming via Cuba from Colombia.

"Specifically explained, when the boats left Colombia, they left with the Cuban flag in order to let the Cuban Government know that they were coming in friendly. The Cuban Government boats would come to the motherships to escort them into the Cuban key, which is called Cayo Perdon Grande; that is the name of the key."

Standing Orders—There is not sufficient space in this issue of *American Survival Guide* to detail all of the operations that the DGI is waging against the United States. I have, however, established that DGI agents in America operate on nine general basic standing orders, which are:

1. To gather intelligence concerning anti-Castro paramilitary operations.
2. Create civil disturbances or spread disinformation when ordered to by Havana.
3. Maintain regular communications with Havana and other DGI agents in the United States.
4. Assist the KGB or any other "friendly" intelligence services when requested.
5. Terminate (kill) any person when ordered to do so.
6. Whenever possible, traffic in drugs to support the agents operations in the United States or arrange a large scale of narcotics in behalf of the Castro government.
7. Assist, direct or train any American-based terrorist group when ordered to do so.
8. Terminate anyone who is a threat to the DGI Intelligence or drug operations.
9. Collect any intelligence information that might be of use to the DGI or KGB.

One former inmate of a DGI-operated prison work crew in Cuba told me how he and others had been taken under guard to a remote boatyard where he had repainted luxury yachts and expensive boats that had arrived with American names and cities painted on them. The man said that the boats had bullet holes in them and there was dried blood on the decks and bulkheads.

The U.S. Coast Guard confirms that hundreds of American-owned large and small watercraft have vanished without a trace with their crews during the past 10 years in waters off Florida. ●

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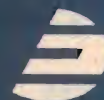
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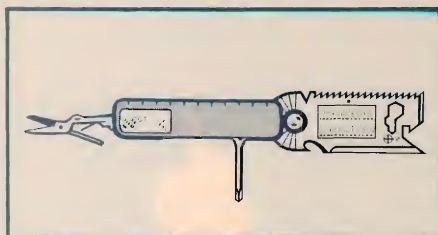
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The Ammo Glove fits on the stock of any shotgun—police or sport. It holds five 12 gauge rounds in elastic loops, underneath the stock where they do not interfere with aiming or firing, but are readily available for fast reloading. The Ammo Glove is fabricated of black canvas, with a Velcro fastener. The Ammo Glove is priced at \$18, postpaid, and is available from Hi-Calibre Products, Inc., 666 Dundee Road, Suite 1607, Dept. ASG, Northbrook, IL 60062, phone (312) 498-5680.



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The Grease Gun, in .45 ACP and 9mm Parabellum, is now being manufactured by Broadhead Armory, Inc., and is distributed nationwide by Michigan Quartermaster, Inc., 2154 Eureka, Dept. ASG, Wyandotte, MI 48192, phone (313) 285-1360. The semi-automatic Grease Gun has a 16.1-inch barrel and weighs 8.5 pounds. With stock extended, overall length is 37 inches, and with stock retracted, the Grease Gun is 31 inches long. Magazines for .45 ACP available contain 10, 30 or 40 rounds. The 9mm magazines have a 32-round capacity. The Grease Gun is all-metal, and fires from a closed bolt. Suggested retail prices are \$350 for the M3C with .45 ACP standard barrel; \$385 for the M3C .45 with OSS barrel; \$150 for the 9mm conversion unit; Standard .45 or 9mm barrel \$75; OSS barrel in .45 ACP or 9mm \$100; and the display barrel \$30. Michigan Quartermaster will provide more information on request.

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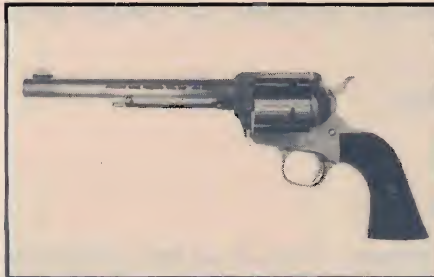
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and can be worn either right- or left-handed. It can also be removed entirely for the shooter who doesn't want or need the additional tiedown. The holster is made of Cordura nylon with waterproof closed-cell foam padding and nylon lining that protects the gun from scuffing. Available at gun and sporting goods stores. For a catalog send \$1 to Michaels of Oregon, P.O. Box 13010, Dept. ASG, Portland, OR 97213.



The Most

After 28 years of research, the Casull, in .454 caliber, now is in production. Said to be the world's most powerful revolver, the .454 Casull propels a bullet at more than 2,000 fps, and generates more than 2,000 ft-lb of muzzle energy. The big revolver is constructed from 17-4 Ph stainless steel. The cylinder is chambered for 5 rounds of .454 ammunition, developed especially for

this revolver. The Casull can also accommodate .45 Long Colt cartridges. Freedom Arms, 4133 West Farm Road, Dept. ASG, West Jordan, UT 84084, phone (801) 255-7106, will provide a descriptive brochure on the Casull .454 without charge on request.



The Original

Despite many copying attempts, the Bali-Song has never been equalled. The design, edge-holding characteristics, corrosion-resistance and durability of the Model 10 make it a classic survival weapon or tool. The Cutlery Shoppe, P.O. Box 15094, Dept. ASG, Boise, ID 83715, is now offering the second Bali-Song production knife for the rest of this year at \$39.95 each, plus

(Continued on page 60)

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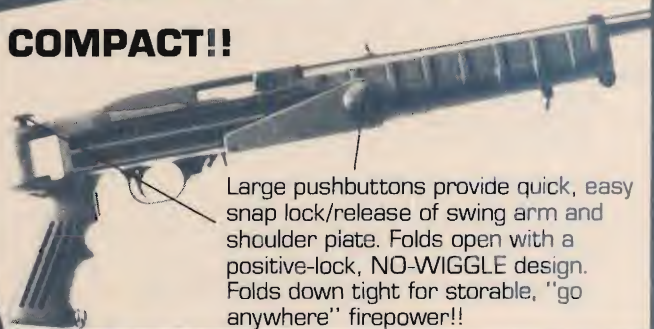
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GALIL 7.62

Here's a lightweight heavy-hitter, a battle rifle that can be sporter—or sniper, if need arises . . .

Staff Evaluation

PHOTOS BY DAVE EPPERSON AND JIM BENSON

GALIL, ASK THE Arabs in South Lebanon about this battle rifle. They've been on the receiving end. Here in the U.S., the Galil in 7.62mm NATO (.308 Winchester) is a new commodity in the firearms marketplace. The 5.56-chambered Galil has been available in the U.S. for more than two years, but the 7.62 version of this semi-auto rifle is now being introduced by Magnum Research of Minneapolis, Minnesota.

At first encounter, the Galil looks, well, efficient. What's on the weapon is necessary to its function as an attacker or

defender. There are no frills or fripperies on the Galil 7.62. Nose to tail, the Galil displays features as follows:

- A flash suppressor, with louvers at 60 degrees radially, disperses hot gases, and helps to stabilize the muzzle when firing.
- Next is a bayonet lug.
- Then there is the bipod mount at the bottom of the barrel. The bipod is fitted with a through-pin, which is retained by a circlip. The bipod is held folded against the barrel and fore-end by spring tension, and simply swings down. At the bottom of

the swing, it engages a catch to form a rigid support at 90 degrees to the barrel. The two legs of the bipod must be scissored together to release the catch and retract it.

- Above and slightly to the rear of the bipod mount lug is the gas port collar, which also supports the front sling fitting, and the hooded front post sight, which houses a flip-up tritium-treated post night sight. The front sight and bipod mount assembly provides for the gas operating systems duct from the barrel port to the operating cylinder, and in addition provides front mounting alignment for the operating rod piston within the cylinder. This is a multi-purpose component, if ever there was one.

- Below the gas cylinder is the plastic fore-end handguard, which is held away from the barrel to provide air circulation for cooling, and is metal lined to prevent barrel heat transfer to the shooter's hand.

- The magazine well, ejection port and action charging handle are next.

- Below and just to the rear are positioned the magazine latch lever, and the trigger guard and trigger.

- Above these, on the right hand side (as seen from the rear), is the safety, an apparent adaption from the Soviet AK.

- At the top of the upper receiver is the flip-adjustable "L"-type rocker sight with a ball detent that positions the sight securely in one of three positions, at 300 meters, 500 meters, or for use with the flip-up rear U-notch night sight.

- Below is the hard plastic pistol grip.

- At the left rear of the receiver is the "opposite-hand" safety thumb lever.

- At the center rear of the upper receiver is a rectangular pushbutton, in reality a spring keeper, that holds the semi-auto action mainspring in place.

- And, to complete the walk-along, at the rear of the upper receiver housing are the rear sling fitting and the spring-loaded hinge that supports the tubular steel folding stock. The stock is under some spring tension when folded, but swings rearward easily, then snap-locks into the shoulder-firing position. To re-fold the stock for-

GALIL MR 332A SEMI-AUTO AR/M: TECH SPECS

Caliber	.308 (7.62x51mm NATO)
Action	semi-automatic
Operation	gas-piston, rotating bolt
Lengths:	
Barrel, inches (mm)	20 (508)
Flash hider, inches (mm)	1 (27)
Overall, inches (mm)	40.30 (1,025)
Width:	
Stock folded, inches (mm)	2.50 (63.50)
Stock deployed, inches (mm)	1.63 (41.28)
Height, at grip, inches (mm)	8.40 (215.90)
Weights:	
Rifle, bare, pounds (kg)	8.7 (3.95)
With bipod, 25-round magazine, loaded, pounds (kg)	11.40 (5.20)
Sights:	
Front	hooded post, flip-up tritium night sight
Rear	aperture, flip-adjustable "L" for 300/500 meters
Sight radius, inches (mm)	18.38 (466.73)
Rifling:	
Grooves	4
Twist, turns/inches (mm)	1/12 (1/304.80)
Muzzle velocity, nominal, fps	2,820
Muzzle energy, nominal, ft-lb	2,648
Prices, suggested retail:	
Rifle, MR 332A, AR/M	\$1,119
Conversion kit, GRA 103	\$150
5-round magazine, each	\$39
20-round magazine, each	\$39
25-round magazine	\$50
Manufacturer	Israeli Military Industries Israel
U.S. distributor	Magnum Research, Inc. 72 Commerce Circle West Minneapolis, MN 55432 Phone: (612) 574-1868

ward alongside the receiver requires a fairly heavy push downward on the tubular members of the stock to disengage the spring latch. At the rear of the stock is a cast-alloy buttplate.

Semi-Auto Action—A follow-through on the Galil's gas operating system is a tour of the non-complex.

Start with a topped-up magazine. Hook the upper forward flange of the magazine into the forward end of the well, swing the mag upward, and pat its bottom smartly to latch the 5-, 20- or 25-round magazine into place. Draw the charging lever rearward, and let the mainspring slam the bolt and bolt carrier forward to take a round from the magazine, slide it into the Galil's chamber, and lock the action into battery. All systems are now "Go!"

A squeeze of the trigger releases the hammer to strike the through-bolt firing pin, and send an Israeli Military Industries Samson 180-grain soft-point boat-tailed bullet away at nearly 3,000 fps.

When the bullet is about 9 inches along the barrel, part of the hot gases behind it bleed through a port in the barrel, up through the aforementioned duct inside the front sight mount, and into the cylinder. The rapidly expanding gas provides the operating energy for the piston in the cylinder, driving it rearward. The bolt and bolt carrier are at the rear of the piston rod, and move with it, against the increasing compression tension of the coil mainspring.

When the Galil 7.62 is in battery, ready to fire, the bolt is rotated about 5mm clockwise, its two locking lugs turned into

engagement with locking grooves on either side of the chamber.

As the piston/operating-rod/bolt/bolt-carrier assembly starts rearward, the bolt rotates counterclockwise, guided by grooves in the bolt carrier, and unlocks from the barrel lugs.

As the bolt and carrier continue to be driven rearward by the piston, the main-spring is fully compressed, and the hammer is cocked against the trigger sear. If the trigger is held down, the disconnecter hook engages a machined flange at the rear of the hammer, and the Galil cannot be fired until the trigger is released, then squeezed again.

The bolt traveling rearward in the bolt carrier takes with it the spent 7.62 case to the point at which the rear of the case is struck by the ejector protruding from the

► Broken down into its component assemblies, the Galil 7.62 appears incredibly non-complex.

Firing from the prone position, the bipod keeps a 25-round magazine clear of the ground, and the sights at shooter's eye level. ▼



bolt guide rail on the left-hand side of the lower receiver, which sends the empty out the ejection port—for a distance of 3 to 5 feet forward, when firing prone.

And the forward-moving bolt, driven by the decompressing mainspring, grabs another round from the top of the box magazine, and shoves it directly into the chamber. The Galil does not have a feed ramp as such, but rather relies on positioning of the top round in the staggered magazine high enough for straight-line direct feeding from magazine to chamber.

Easy Does It—It takes less time to field-strip a Galil 7.62 for cleaning than it does to put the procedure down on paper. For the most part, it's a pushbutton operation.

Make sure the action is cleared, and leave it cocked. Push that disassembly

button at the rear of the receiver. Lift off the receiver cover. Disengage the mainspring and mainspring guide from the rear of the receiver. Slide the bolt and bolt carrier rearward, pushing down a little to compress the hammer action a bit. Lift the bolt/carrier out of its channel. Separate the bolt and carrier by sliding the bolt out of the front of the carrier. And remove the gas cylinder from the front-sight/gas-duct fitting. Just about everything that needs cleaning and/or routine maintenance is now exposed.

And the trigger/hammer/disconnector/safety group can be inspected: Is the hammer engaging the sear properly? Is the disconnector catching the hammer when the trigger is held down? Is the safety bar swinging into position over the disconnector, blocking forward fall of the ham-

mer? A-OK!

The trigger and hammer assembly is actuated by a double-wound-wire coil spring, *a la* Kalashnikov. This type of spring, in the first place, resists breaking, and in the second place, when broken, may well continue to function—a worthy consideration for those who face combat engagements.

The Shoot—*American Survival Guide* staff shooters were eager to take the Galil into the field. The crew gathered up three kinds of 7.62mm ammo for the test, and departed the office for the boondocks.

Walking from the duty truck to the "range" area, everyone wanted to carry the Galil, rather than lunch or the old GI 20mm ammunition box with the day's fodder therein. The Galil is that light.



Disassembly starts with removal of the magazine.



A push of the button frees the receiver cover.



Lifting the receiver cover exposes the mainspring and the hammer/trigger/disconnector group in the lower receiver.



The bolt-carrier/bolt/gas-piston assembly slides out of the cylinder.



The gas piston slips free of the gas port duct housing.

With sling adjusted, stock folded and bipod tucked-up underneath, the Galil can be carried easily, rock 'n' roll style, at the ready, or sling over the shoulder, hunter style. No one complained about the Galil's weight.

The first string, fired at 100 meters, grouped at 4.5 inches with Olin (Winchester Group) 147-grain military hardball. The second string was fired with a no-name brand of military full-metal-jacketed ammunition. These Made In Asia rounds were inconsistent, and delivered flyers on occasion—up flyers on apparent overloads, down flyers on loads with less powder or less effective primers or both. Finally, a string was fired with the previously cited IMI Samson 180-grain soft-points. The experienced shooters could manage groups of 3.5 to 4 inches with the hot Israeli ammo

fired over the same 100 meters.

All shooting was done from the prone position, using the bipod deployed.

The Galil not once—repeat, not once—failed to fire during the test shoot. As a matter of act, the Galil gave the firearms specialist editors very little to talk and write about. The efficient appearance of the Galil was backed up by a neat, tidy, *efficient* performance in the field. About 300 rounds of the three brands of ammo were fired. The Galil fed, chambered, extracted and ejected one and all, every time. When things go perfectly, there's no calculating a failure rate.

Evaluation—To ASG readers who complain that this magazine reports on weaponry that is too expensive for their budgets, it's necessary to repeat the

phrase: "You get what you pay for." The Galil in 7.62mm NATO is very expensive, when compared with some battle/assault weaponry produced in the U.S., and overseas.

It is ASG's considered opinion that the Galil 7.62 or the Galil 5.56, tested by this magazine more than two years ago, are worth the pricey price. Those who believe they require absolute dependability, first, then quality in manufacture, longevity in terms of use, and ease of handling, plus accuracy, will pay the price. Those who cannot pay the price must settle for something less than the best.

In the survivalist framework, a .308 rifle that fires every time is the prime asset for when the time comes. There is no doubt, clearly, that the Galil is, as stated, most efficient, and absolutely reliable. ●



Here the fore-end handgrip is removed. Note that it is metal lined to prevent heat transfer to the shooter's hand, and rests well away from the barrel.



This is the all-purpose Galil tool for picking, prodding and turning various fittings on the rifle.



The 7.62mm NATO (.308 Winchester) rounds require only a push downward for loading in Galil magazines.



These optional extra-cost components convert the Galil to a "sporting rifle"—a very thin disguise at best.

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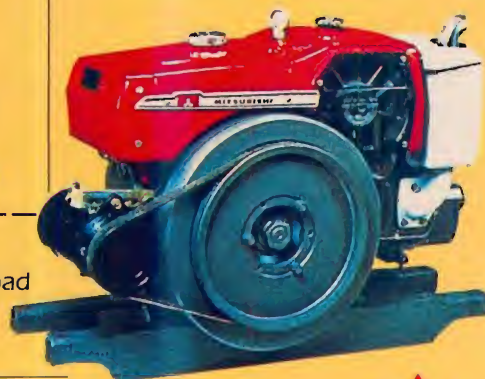
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American CD Group Seeks Funding Help

THE AMERICAN Civil Defense Association, which publishes the *Journal of Civil Defense*, has lost its free office space in a Florida state government building, and hence is in need of funds to continue its operations.

"We've lost our 'free ride' in a state building due to the closing down of three Florida emergency operating centers," reports Janice Tyliczka, TACDA secretary-treasurer.

"Instead of paying exorbitant rent and being at the mercy of a lease, we found a bargain and we purchased for a song (\$20,000) a building that is structurally sound, but has been neglected and needs all kinds of renovating."

The *Journal of Civil Defense* is published bi-monthly and is sponsored by the Oak Ridge Civil Defense Society. The journal presents factual information relating to civil defense and the survival of the United States in the nuclear age. Its aim is to provide public education on civil defense, and it serves as a forum for the views of industry, technology, emergency government and concerned citizens.

Against the Wall—To purchase a new, 1,700-square-foot building, TACDA drew on funds earmarked for other major expenses, including \$3,500 for its next issue of the *Journal of Civil Defense*. Staff members are helping with renovation work.

"Our investment in the building has us against the wall as far as these obligations go, *really* against the wall," Tyliczka says.

A building fund started two years ago, when the move was first anticipated, has raised \$2,400 and mailed requests for contributions brought in another \$3,129, according to Tyliczka.

The non-profit CD organization, now 23 years in existence, still requires \$25,000 from individuals, corporations and/or other sponsors to continue to operate and to advance the cause of "peace through preparedness."

Send Money—Survivalists who are interested in helping to fund the TDCA in order to carry out this mission are urged to send contributions to: Janice Tyliczka, Secretary Treasurer, The American Civil Defense Association, P.O. Box 1057, Dept. ASG, Starke, FL 32091. ●



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
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JUNE 1985/AMERICAN SURVIVAL GUIDE 29

Skills Inventory:

SURVIVAL SELF-SURVEY

*How do you and your family stack up
when it comes to emergency preparedness? . . .*

By David Matthews

IN EVENT OF any major civil or national emergency, preparedness skills acquired previously by each individual will play an essential role in ensuring basic survival and well-being. This is true particularly when the crisis period is of extended duration.

Safety City, of Washington, D.C., developed this survey as a means to assist people to access the breadth and depth of their own emergency preparedness skills, those of family and friends, and those of survivalist organizations.

A brief review of topics listed in the survey will emphasize an important realization: Long-term survival under emergency conditions requires an array of capabilities that few single individuals can hope to master. This supports the advisability of preparedness plans based on development of interrelated, complimentary skills by members of families and/or mutual support groups. In this way, all can be ready to play vital roles in contributing to the well-being of associates, and can benefit from many different kinds of assistance each is able to provide.

A second realization is that, given the wide range of topics listed, those which are naturally interesting can become regular avocational or recreational activities. A review of the accompanying questionnaire likely will reveal at least one or two areas in which an individual has attained a degree of proficiency already. Moreover, one may see some additional skills, the mastery of which would prove both enjoyable and beneficial.

For every topic listed, casual inquiry will reveal numerous sources of instruction: Community colleges, public libraries, American Red Cross, civil defense agencies, vocational schools, community

organizations, service clubs, police and sheriff's reserve units, and service clubs provide opportunities to obtain low-cost training and competent instruction—which may lead to official certification or academic credit. Seek out these sources of survival knowledge, and actively pursue courses or instruction.

Additional Info—For additional information about local training resources and opportunities, contact Safety City, Inc., P.O. Box 19147, Dept. ASG, Washington, DC 20036, phone (301) 596-5877. Safety City requests that those who wish specific information on specialized equipment or supplies related to Self-Survey Topics, write or telephone. Safety City has listed numerous sources for products related to emergency preparedness, and offers a locator service.

Instructions—Here are the instructions for completing the Self-Survey of Emergency Preparedness Skills on following pages:

(1) For each skill listed, circle the response indicating whether you have **No Interest (N)**, **Some Interest (S)** or **High Interest (H)**.

(2) In the Present Skill Level column, circle your present proficiency, self-rated on a scale of Zero (0) through Three (3). Zero (0) indicates **No Present Skill** in the topic, One (1) equals **Apprentice Level Skills**, Two (2) equals **Journeyman Skills**, and Three (3) equals **Master Level Skills**.

(3) For each skill in which you have indicated a High Interest, circle the appropriate response in the column designated Desired Skill Level, using a scale of (A) through (C). (A) indicates you desire to

achieve **Apprentice Skills**, (B) indicates a desire to achieve **Journeyman Skills**, and (C) indicates you desire to achieve **Master Skills** level.

(4) Lastly, for any topic in which you have rated your *present* skill level to be in the Master category, complete the column designated Willing to Develop and/or Provide Training for others. If you circle **Yes (Y)** for a particular topic, it means you are willing to help to develop and/or provide such training. A **No (N)** response indicates that you are not willing to develop and/or provide training for others.

Individuals—The single individual who completes this form may enter responses in the manner outlined. If another person uses this copy of the survey, each response should be accompanied by an initial in order to permit identification. In cases in which three or more persons complete the survey document, it is preferable for each respondent to use a different colored pencil or pen. This keeps self-ratings and preference indications from becoming mixed and indecipherable.

Family and Friends—By conducting this survey among family and friends, and reviewing their responses, it will be possible to determine which skills are adequately represented within the primary group(s) of people upon which you would most likely rely in time of emergency. From the sum total of answers obtained, you may determine in which skills you are weak or underrepresented. You will then be able to plan more systematically for acquisition of critical skills and capabilities needed to maximize the chances for safety and survival in any future crisis.

The Self-Survey follows:

TOPIC	INTEREST LEVEL			PRESENT SKILL LEVEL				DESIRED SKILL LEVEL			Complete for topics in which you indicate a high interest.		Complete for topics in which you have rated your present skill level to be Master (3).	
											WILLING TO DEVELOP/PROVIDE TRAINING FOR OTHERS			
	None	Some	High	None	Apprentice	Journeyman	Master	Apprentice	Journeyman	Master	Yes	No		
	N	S	H	0	1	2	3	A	B	C	Y	N		
A: HOME MANAGEMENT/HANDICRAFTS														
1—Home Water Purification/Storage	N	S	H	0	1	2	3	A	B	C	Y	N		
2—Food Processing/Canning/Dehydrating/Storage	N	S	H	0	1	2	3	A	B	C	Y	N		
3—Hand-Powered Home/Kitchen Appliances	N	S	H	0	1	2	3	A	B	C	Y	N		
4—Nutrition/Home Economics	N	S	H	0	1	2	3	A	B	C	Y	N		
5—Soap/Candle Making	N	S	H	0	1	2	3	A	B	C	Y	N		
6—Home Product Chemistry/Formulation Process	N	S	H	0	1	2	3	A	B	C	Y	N		
7—Spinning/Weaving	N	S	H	0	1	2	3	A	B	C	Y	N		
8—Sewing/Knitting/Crocheting	N	S	H	0	1	2	3	A	B	C	Y	N		
9—Home Energy/Resource Conservation	N	S	H	0	1	2	3	A	B	C	Y	N		
10—Other	N	S	H	0	1	2	3	A	B	C	Y	N		
B: HOME BACK-UP SYSTEMS														
1—Back-Up Home Heating Systems	N	S	H	0	1	2	3	A	B	C	Y	N		
2—Back-Up Home Lighting Systems	N	S	H	0	1	2	3	A	B	C	Y	N		
3—Back-Up Range/Cooking Systems	N	S	H	0	1	2	3	A	B	C	Y	N		
4—Back-Up Home Water Heating/Pressure Systems	N	S	H	0	1	2	3	A	B	C	Y	N		
5—Back-Up Food Refrigeration/Freezing Systems	N	S	H	0	1	2	3	A	B	C	Y	N		
6—Back-Up Home Electrical Systems	N	S	H	0	1	2	3	A	B	C	Y	N		
7—Back-Up Home Waste Disposal/Composting	N	S	H	0	1	2	3	A	B	C	Y	N		
8—Back-Up Communication/Signaling Systems	N	S	H	0	1	2	3	A	B	C	Y	N		
9—Other	N	S	H	0	1	2	3	A	B	C	Y	N		
C: MEDICAL/DENTAL														
1—First Aid	N	S	H	0	1	2	3	A	B	C	Y	N		
2—Non-Prescription Drugs/Medications	N	S	H	0	1	2	3	A	B	C	Y	N		
3—Paramedical Skills	N	S	H	0	1	2	3	A	B	C	Y	N		
4—Medicine/Surgery	N	S	H	0	1	2	3	A	B	C	Y	N		
5—Pharmacology	N	S	H	0	1	2	3	A	B	C	Y	N		
6—Nursing/Midwifery	N	S	H	0	1	2	3	A	B	C	Y	N		
7—Medical Lab Technology	N	S	H	0	1	2	3	A	B	C	Y	N		
8—Paradental Skills	N	S	H	0	1	2	3	A	B	C	Y	N		
9—Dentistry/Oral Surgery	N	S	H	0	1	2	3	A	B	C	Y	N		
10—Public Health/Epidemiology	N	S	H	0	1	2	3	A	B	C	Y	N		
11—Medicinal Herbs/Plants	N	S	H	0	1	2	3	A	B	C	Y	N		
12—Natural/Folk Medicine	N	S	H	0	1	2	3	A	B	C	Y	N		
13—Other	N	S	H	0	1	2	3	A	B	C	Y	N		
D: FOOD PRODUCTION														
1—Gardening/Organic-Hydroponic	N	S	H	0	1	2	3	A	B	C	Y	N		
2—Greenhouse Construction/Use	N	S	H	0	1	2	3	A	B	C	Y	N		
2—Fruit Tree/Small Orchard Cultivation	N	S	H	0	1	2	3	A	B	C	Y	N		
4—Beekeeping	N	S	H	0	1	2	3	A	B	C	Y	N		
5—Small Animal Husbandry	N	S	H	0	1	2	3	A	B	C	Y	N		
6—Aquaculture	N	S	H	0	1	2	3	A	B	C	Y	N		
7—Farmstead Operation/Maintenance/Management	N	S	H	0	1	2	3	A	B	C	Y	N		
8—Other	N	S	H	0	1	2	3	A	B	C	Y	N		
E: MECHANICS/BUILDING/FABRICATION/PROCESSING														
1—Hand Tools Use/Maintenance	N	S	H	0	1	2	3	A	B	C	Y	N		
2—Wood Cutting Equipment/Skills	N	S	H	0	1	2	3	A	B	C	Y	N		
3—Bicycle Maintenance/Repair	N	S	H	0	1	2	3	A	B	C	Y	N		
4—Small Engine Maintenance/Repair	N	S	H	0	1	2	3	A	B	C	Y	N		
5—Auto/Truck Maintenance/Repair	N	S	H	0	1	2	3	A	B	C	Y	N		
6—Home Appliance Repair	N	S	H	0	1	2	3	A	B	C	Y	N		
7—Home Electrical System Repair/Maintenance	N	S	H	0	1	2	3	A	B	C	Y	N		
8—Plumbing	N	S	H	0	1	2	3	A	B	C	Y	N		
9—Carpentry/Woodworking	N	S	H	0	1	2	3	A	B	C	Y	N		
10—Masonry/Concrete	N	S	H	0	1	2	3	A	B	C	Y	N		

TOPIC	INTEREST LEVEL			PRESENT SKILL LEVEL			DESIRED SKILL LEVEL			WILLING TO DEVELOP/PROVIDE TRAINING FOR OTHERS		
	None	Some	High	None	Apprentice	Journeyman	Master	Apprentice	Journeyman	Master	Yes	No
11—Metalworking/Blacksmithing/Weld-Solder	N	S	H	0	1	2	3	A	B	C	Y	N
12—Wood/Coal Stove Design/Fabrication	N	S	H	0	1	2	3	A	B	C	Y	N
13—Rope/Cable/Rigging Skills	N	S	H	0	1	2	3	A	B	C	Y	N
14—Well Drilling/Pumping Systems	N	S	H	0	1	2	3	A	B	C	Y	N
15—Trailer/RV/Mobile Home/Design/Fabrication	N	S	H	0	1	2	3	A	B	C	Y	N
16—Construction/Cabins/Sheds/Domes/Field Expedient Structures	N	S	H	0	1	2	3	A	B	C	Y	N
17—Tanning/Leatherwork	N	S	H	0	1	2	3	A	B	C	Y	N
18—Shoemaking/Shoe Repair	N	S	H	0	1	2	3	A	B	C	Y	N
19—Other	N	S	H	0	1	2	3	A	B	C	Y	N
F: ENERGY SYSTEMS												
1—Wood/Coal Energy Systems	N	S	H	0	1	2	3	A	B	C	Y	N
2—Solar Energy—Passive/Active Systems/Photovoltaics	N	S	H	0	1	2	3	A	B	C	Y	N
3—Wind Energy/Voltaics	N	S	H	0	1	2	3	A	B	C	Y	N
4—Alcohol Fuel Production	N	S	H	0	1	2	3	A	B	C	Y	N
5—Liquid Propane Energy Systems	N	S	H	0	1	2	3	A	B	C	Y	N
6—Steam Power Systems	N	S	H	0	1	2	3	A	B	C	Y	N
7—Water Power Systems/Hydraulics	N	S	H	0	1	2	3	A	B	C	Y	N
8—Pedal Power Systems	N	S	H	0	1	2	3	A	B	C	Y	N
9—Other	N	S	H	0	1	2	3	A	B	C	Y	N
G: OUTDOOR LIVING/PIONEERING												
1—Backpacking/Camping Skills	N	S	H	0	1	2	3	A	B	C	Y	N
2—Foraging/Wilderness Survival	N	S	H	0	1	2	3	A	B	C	Y	N
3—Hunting Skills	N	S	H	0	1	2	3	A	B	C	Y	N
4—Fishing Skills	N	S	H	0	1	2	3	A	B	C	Y	N
5—Skiing/Mountaineering	N	S	H	0	1	2	3	A	B	C	Y	N
6—Swimming/Lifesaving	N	S	H	0	1	2	3	A	B	C	Y	N
7—Canoeing/Kayaking	N	S	H	0	1	2	3	A	B	C	Y	N
8—Open Water/Deepsea Survival	N	S	H	0	1	2	3	A	B	C	Y	N
9—Search/Rescue Procedures	N	S	H	0	1	2	3	A	B	C	Y	N
10—Other	N	S	H	0	1	2	3	A	B	C	Y	N
H: SECURITY/SELF-/HOME-DEFENSE SKILLS												
1—Home Security/Defense Systems	N	S	H	0	1	2	3	A	B	C	Y	N
2—Individual/Small-Group Defensive Tactics	N	S	H	0	1	2	3	A	B	C	Y	N
3—Personal Protection/Combat Skills	N	S	H	0	1	2	3	A	B	C	Y	N
4—Rifle Skills	N	S	H	0	1	2	3	A	B	C	Y	N
5—Pistol/Revolver Skills	N	S	H	0	1	2	3	A	B	C	Y	N
6—Shotgun Skills	N	S	H	0	1	2	3	A	B	C	Y	N
7—Non-Lethal Weapons/Defensive Skills	N	S	H	0	1	2	3	A	B	C	Y	N
8—Scouting/Patrol Skills	N	S	H	0	1	2	3	A	B	C	Y	N
9—Improvised Fortifications Systems	N	S	H	0	1	2	3	A	B	C	Y	N
10—Lethal Weapons/Firearms Safety/Discipline/Responsibility	N	S	H	0	1	2	3	A	B	C	Y	N
11—Firearms Marksmanship	N	S	H	0	1	2	3	A	B	C	Y	N
12—Ammunition/Handloading	N	S	H	0	1	2	3	A	B	C	Y	N
13—Gunsmithing/Firearms Repair	N	S	H	0	1	2	3	A	B	C	Y	N
14—Black Powder Firearms Skills	N	S	H	0	1	2	3	A	B	C	Y	N
15—Crossbow/Tomahawk/Blow Gun Skills	N	S	H	0	1	2	3	A	B	C	Y	N
16—Edged Weapons Skills/Knife Fighting	N	S	H	0	1	2	3	A	B	C	Y	N
17—Other	N	S	H	0	1	2	3	A	B	C	Y	N
I: EVACUATION, MOBILE SURVIVAL/RETREAT SYSTEMS												
1—Backpack Systems	N	S	H	0	1	2	3	A	B	C	Y	N
2—Bicycle Systems	N	S	H	0	1	2	3	A	B	C	Y	N
3—Motorcycle Systems	N	S	H	0	1	2	3	A	B	C	Y	N
4—Canoe/Small Boat Systems	N	S	H	0	1	2	3	A	B	C	Y	N
5—Automobile/Truck Systems	N	S	H	0	1	2	3	A	B	C	Y	N
6—Four-Wheel Drive Vehicle Systems	N	S	H	0	1	2	3	A	B	C	Y	N
7—Recreational Vehicle/Trailer Systems	N	S	H	0	1	2	3	A	B	C	Y	N
8—Sail/Powerboat Systems	N	S	H	0	1	2	3	A	B	C	Y	N
9—Aircraft Systems	N	S	H	0	1	2	3	A	B	C	Y	N
10—Individual/Family Retreat Planning/Design	N	S	H	0	1	2	3	A	B	C	Y	N
11—Group/Organization Retreat Planning/Design	N	S	H	0	1	2	3	A	B	C	Y	N
12—Other	N	S	H	0	1	2	3	A	B	C	Y	N

A French Connection:

SAILSAFE

These small ships are equipped as nuclear shelters . . .

An American Survival Guide Special Report

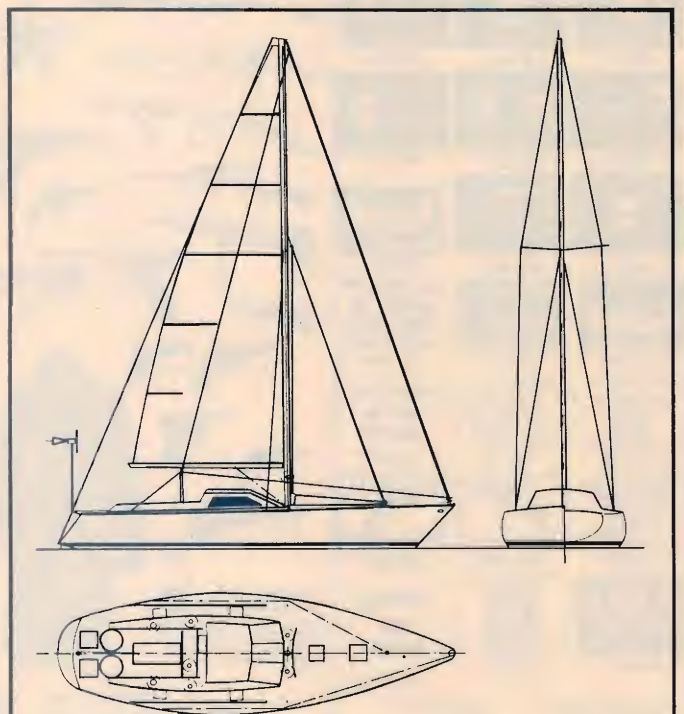
SAILING CRAFT, particularly motor-sailers, often are presented to the survivalist community as a means of escape from nuclear holocaust, and for continuance of life through the aftermath. The premise is that the sailing vessel, with engine-assisted energy systems, can sail away from land, where prime targets are located, into mid-ocean and to other hemispheres, where nuclear strikes are far less likely.

Presented here are three very similar sailboats that are equipped especially to

counter the effects and hazards of nuclear warfare, and to provide for survival in the perilous times to follow. Each craft represents the master design talent of prize-winning marine architects, the boatbuilding skills of an experienced shipyard, and the inventive, innovative anti-nuclear engineering expertise of Alain Bories of Noisiel, France. Bories is an entrepreneur who is, at this writing, in the United States to determine the scope of the American market for such sailing vessels within the survival framework.

The drawings on these pages are for *Arche de Noe* (Noah's Ark), and two motor-sailers called simply *Voilier de Survie NBC* (Sailboat for Surviving Nuclear-Biological-Chemical Warfare). The three craft share a number of design features, as follows:

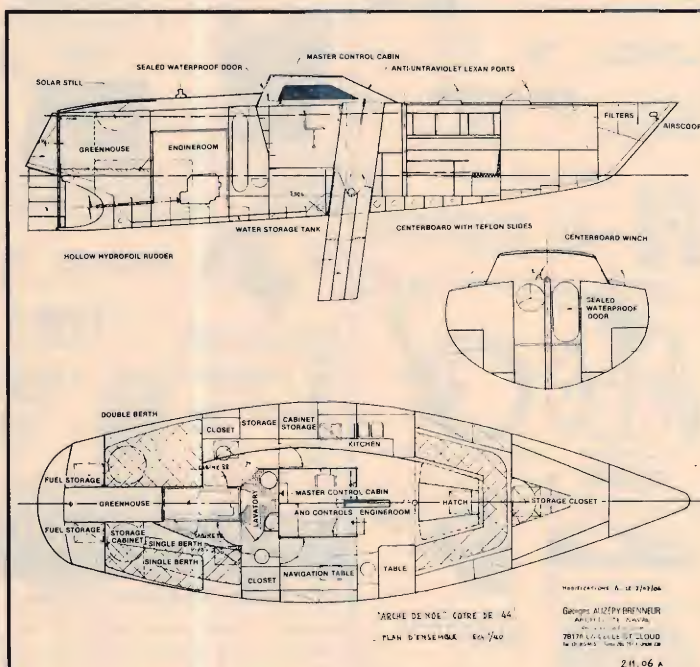
- The hulls and superstructures of the Ark and one of the NBC survival craft are of all-steel construction, whereas the second NBC boat's hull is fabricated of aluminum alloy.
- The ports (windows) are of clear bulletproof glass or Lexan. Double panels provide insulation against arctic cold.
- None of the boats have cockpits, an original design, and expressly a post-nuclear blast safety feature.
- All controls for weighing anchor, setting and reefing in sail, tacking, and for engine operation are in an inside bridge, which is entirely enclosed, and therefore fallout proof. Winch-like mechanisms for deployment of sail and paying out or taking in lines or reefing sail may be operated electrically by one person at the bridge control panel, or manually from operating stations below decks.
- Each boat's decks are convex so that water will run off at all times. There are no scuppers. The boat has a special ducting and pump system that continuously washes all decks and superstructure areas with seawater to flush away possible nuclear fallout contamination.
- The sailboats' cabins—living quarters, galleys, heads, radio communications compartments and engine rooms—



The *Arche de Noe*—Noah's Ark—is one of three craft designed for survival of a nuclear holocaust by escape to subarctic or arctic regions of the globe. This vessel features a single diesel powerplant. Fuel and water reserves, and food storage compartments occupy much of the craft's interior space.

ARCHE DE NOE: TECH SPECS

Overall length, feet (meters)	44 19 (13.47)
Length at the waterline, feet (meters)	37.40 (11.40)
Maximum width, feet (meters)	13.78 (4.20)
Draft, centerboard, up/down, feet (meters)	3.77/8.5 (1.14/2.60)
Displacement, empty, pounds (metric tons)	23,153 (10.5)
Displacement, fully laden, pounds (metric tons)	33,075 (15.0)
Ballast, pounds (metric tons)	8,159 (3.7)
Sail area, square feet (square meters)	1,184 (110)
Engine horsepower	50



Noah's Ark features all-electric controls for its sails, anchor and retractable centerboard. The sleeping cabin can be arranged for a double bed and two single beds. Note the curved decks, without scuppers, that permit a special seawater pumping system to flush surface areas of the craft continuously to wash away possible nuclear fallout contaminants.

are sealed to the outside atmosphere. Moreover, a special filter-and-airpump system maintains positive pressure at a couple of psi above normal inside the hull to prevent intrusion of radiation-bearing contaminants through small apertures, or inadvertent opening of a hatch to the outside.

- Each survival craft is equipped with a diesel-engine-driven alternator/battery power supply. Moreover, each vessel has three battery banks. Each one may be used individually. At any given time, however, one battery bank is on-line to be used for starting the engine(s), a second bank is on-line to supply power for the automatic sail-trimming winch motors and similar equipment, and a third bank is recharging off the engine(s). An alternate energy source is provided by the vessels twin screws which rotate freely in the water, and turn drive-shafts which turn alternators to charge the battery banks.

- Electrical systems are designed to minimize the effects of nuclear weapons' electromagnetic pulse (EMP). The aluminum hull variant of the NBC survival sailing trio is equipped with a special Faraday cage that is designed to conduct possible high-voltage EMP charges directly to ground—in this case, the sea.

'Ride out the holocaust on the sea.'

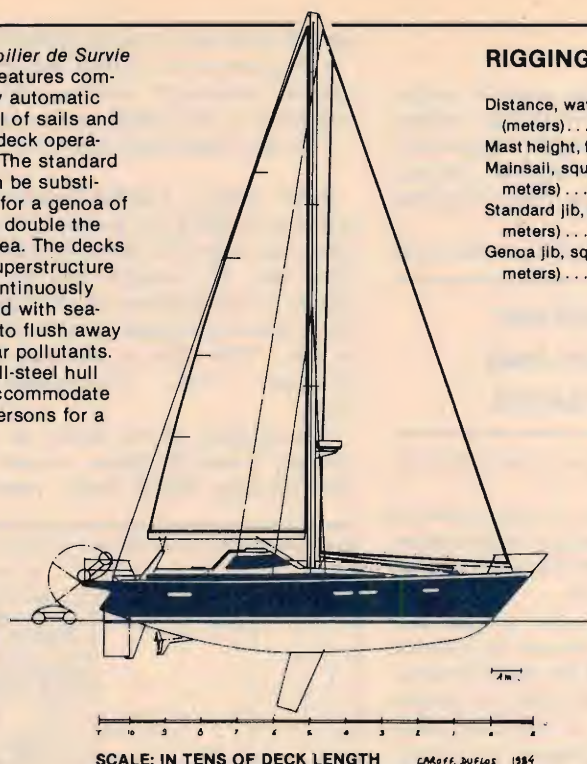
- The *Arche de Noe* design includes a small greenhouse, with soil or a growing medium, between the two sleeping cabins.

- Radio communications antennas and other outside electrical leads have EMP arrestors in their circuitry. All wiring throughout the sailing vessels is with coaxial cable leads, with the shielding of the coax cables grounded to the sea through special connections.

- Each motor-sailer is of keelless, ballasted design, and features centerboards that can be drawn upward into the hull in order to navigate shallow waters. The aluminum-hulled NBC survival craft has the unique feature of being fitted with a mast that can be lowered and resteped automatically from inside the control cabin. The mast's stays and halyards automatically retighten when the mast is raised, and stow away when the mast is lowered. The purpose of this automated mast lowering/raising mechanism is to permit the NBC survival vessel to cruise waterways with low bridges, or to hide among coastal foliage such as mangroves.

- In all three boats, the emphasis is on arctic survival, or rather antarctic survival, as the inventor's belief is that after a nuclear exchange the southern hemisphere and antarctic waters will be far less subject to pollution by nuclear fallout than the seas of the northern hemisphere. In the antarctic, the atmosphere likely will carry

The *Voilier de Survie NBC* features completely automatic control of sails and other deck operations. The standard jib can be substituted for a genoa of nearly double the sail area. The decks and superstructure are continuously washed with seawater to flush away nuclear pollutants. This all-steel hull can accommodate four persons for a year.



RIGGING: TECH SPECS

Distance, waterline to mast top,, feet (meters)	65.62 (20)
Mast height, feet (meters)	60.37 (18.4)
Mainsail, square feet (square meters)	495.14 (46)
Standard jib, square feet (square meters)	538.20 (50)
Genoa jib, square feet (square meters)	871.88 (81)

less harmful radiation that would be dangerous to humans in the survival craft.

- The dimensions of the boats offer size and volume for protracted sea journeys, and to facilitate installation of various special anti-nuclear equipment, diesel fuel reserves for the engine, and storage for food and other necessities for survival.

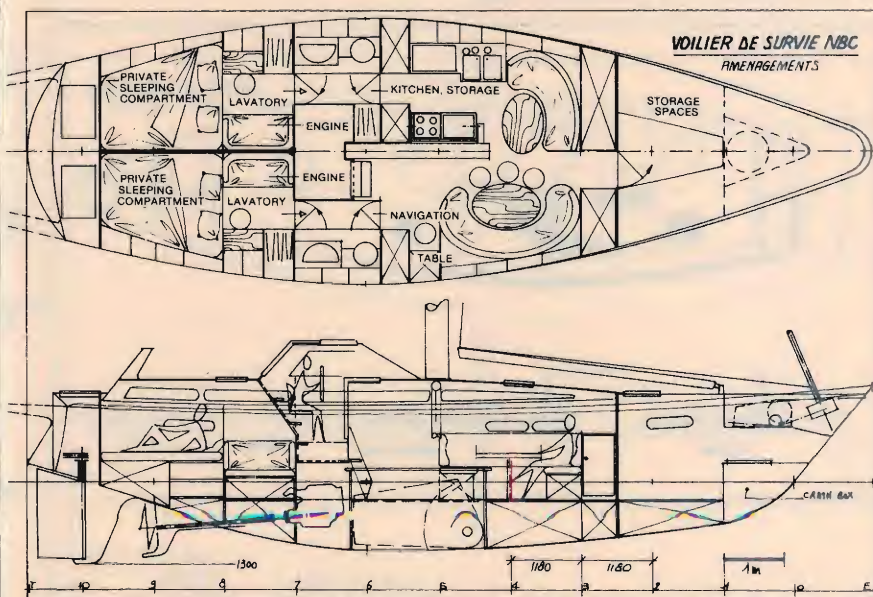
- The boats' chief means of propulsion is sail, though all three designs are equipped with one or two diesel engines that produce 40 to 60 horsepower each,

and associated shafts and helical screws to drive the vessels. However, the diesels are not so much for travel as to provide the power necessary for operation of the various electrical systems.

- Diesel fuel reserves assure autonomous operation for 12 months, when using one engine one hour a day.

- The main water storage tank holds 24.6 gallons (100 liters), but this is augmented by equipment for distillation of water and for manual desalting of seawater. ▶

The *Voilier de Survie NBC* is powered by two 40-60 horsepower engines, and offers a different interior accommodations plan than the *Arche de Noe*. Two double beds are located in the after cabin. The centerboard pivots downward. Note the automated roller furler on the bow forward, which is controlled from the master cabin amidships.



SAILSAFE

- Another 26.4-gallon reservoir system recycles water from dishwashing, bathing and laundry uses through regeneration filters. An electrically and/or exhaust-heated hot water system offers 15-gallon capacity.

- Storage space for 3,307 pounds (1,500

'The southern hemisphere may provide a haven.'

kilograms) of food is provided within the hull.

- The central cabins of the vessels are designed to serve as nuclear decontamination stations, as well as the control center for all sailing maneuvers.

- Sails are roller mounted and are self-tacking in order that they can be trimmed for precise regulation of the vessel's course.

- The hulls are designed to accommodate four persons on board for many months, and are engineered to provide comfortable accommodations for living, sleeping, dining, and personal hygiene and sanitation. Four persons, plus one or two children, constitute the design maximums for any one of the three vessels.

- In addition to the lengthy sea-time potential, the sailing craft are designed to be navigated easily, automatically, in all sea conditions, and all three reflect a reasonable speed potential.

- The hulls are of shallow-draft design, and the craft are of such breadth and burthen that they permit access to most rivers, estuaries and anchorages.

- These boats are built in a shipyard in France that has built craft for inspection of sites at Mururoa in the central Pacific where the French government conducts nuclear weapons testing.

- Prices for the Ark and the two NBC

survival craft start at about \$200,000 each.

- Purchasers of the craft may have the interiors customized, and may add special equipment to the vessels as they choose.

- None of these boats has yet been built.

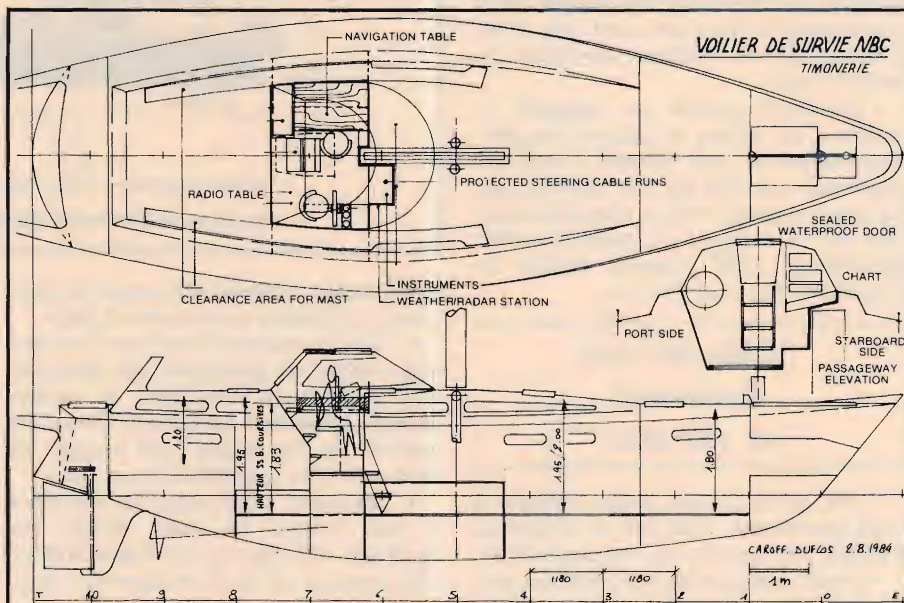
Safer—Bories, a genial Frenchman, in addition to being an inventor, is a long-time world sailor. He has cruised the South China Sea, the Atlantic, and the Indian Ocean. In his journeys on the high seas, Bories has encountered many couples who, he says, "feel safer at sea than in such places as . . . well . . . Los Angeles or New York."

The designer of the *Arche de Noe* is Georges Auzery-Brenneur, winner of the 1985 *Cruising World* design competition

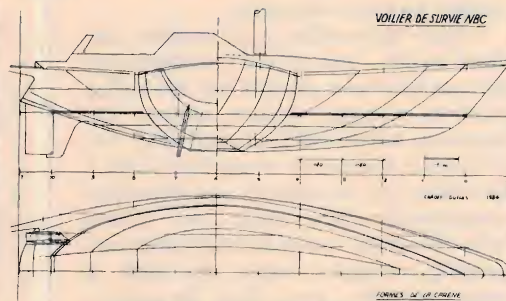
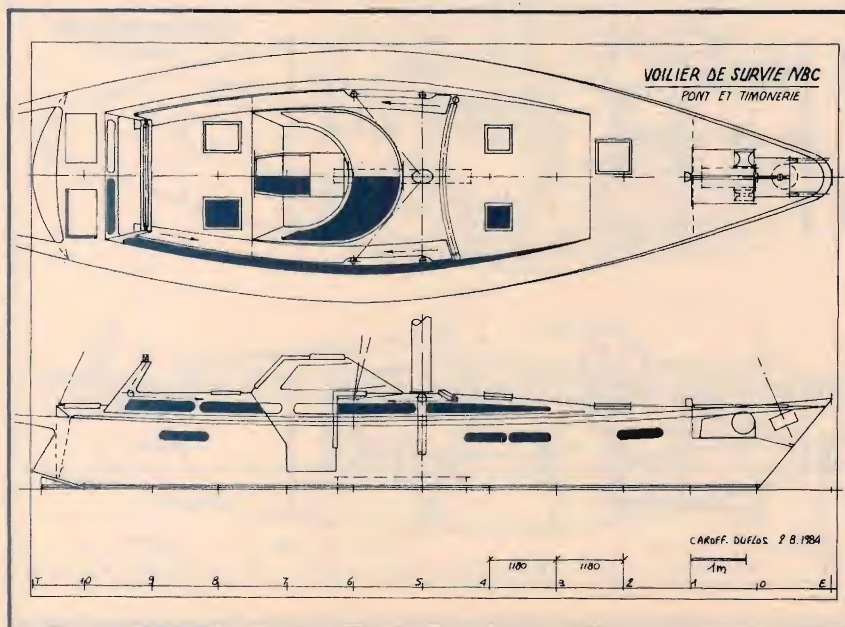
second prize. The steel NBC survival craft was designed by Gilbert Caroff, first prize winner in the *Cruising World* competition for 1979. Maurice Plataret is the designer of the aluminum-hulled survival sailer.

Caroff, among the three marine architects, is an expert on sailing in arctic regions of the globe, and is Bories' adviser with respect to such design hardpoints as hull insulation, heating needs and human survival in sub-freezing sea environments. A Caroff-designed boat was used recently in the first successful navigation, Atlantic to Pacific, of the Northwest Passage.

From examination of plan drawings, it appears to the staff of *American Survival Guide* that the designs of the three marine architects, and Bories' sailing experience



This variation on the Voilier de Survie NBC is unique among the three survival vessels, as it features a mainmast that can be lowered, then raised and re-stepped automatically with winches controlled from the master cabin. When the mast is lowered, stays and halyards slack automatically, and retighten automatically when the mast is raised.



▲ This view shows detail of the polycarbonate (Lexan) ports, supports for mast and spars aft, when the mast is lowered, and hatches that can be opened when there is no danger from nuclear radiation contaminants. The scale is shown in tens of waterline. (See the accompanying specifications table for measurements in feet.)

◀ This drawing depicts in two dimensions the contours of the survival vessel's hull. The craft is designed to be seaworthy for trans-oceanic sailing, to be able to navigate in relatively shallow waters, and to provide adequate interior space for survival equipment, water, fuel and a year's supply of food for four adults, and one or two children.

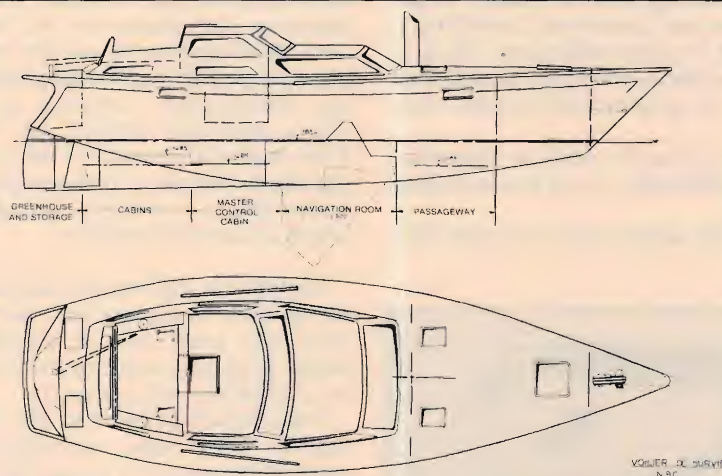
and proposed installations to counter nuclear fallout and associated radiation, plus Caroff's arctic and sub-arctic sailing craft expertise, comprise a talent pool that can, indeed, create effective seagoing shelters for escaping many of the after-effects of a nuclear holocaust.

Alain Bories may be contacted at 14, Cours du Buisson, 77420 Noisiel, France. His telephone number is 33 (6) 017.12.92. Bories, who is fluent in English, will provide additional information on the three survival sailing craft designs, and will discuss base prices, plus the costs of special custom installations.

Survivalists who are planning to purchase a sailing craft or motor-sailer for future escape on the seas would do well to

contact Bories before finalizing any anticipated purchase. These boats seem uniquely well-suited to prolonged survival at sea.

Foreknowledge—However, the people who are to form the survival crew of these craft should be well prepared with thorough foreknowledge of sailing in all weather, celestial navigation, meteorology, and climatology of arctic and subarctic regions. In addition, those who set sail toward survival in one of these craft must have higher than handyman skills in marine electrical systems, rigging, engine mechanics, plumbing, painting and other routine sailors' tasks. These survival vessels are not weekend daysailers. ●



This is the aluminum-hulled version of the *Voilier de Survie NBC*. Like the steel-hulled versions, this vessel can be controlled by one person for sailing in all weather. A unique feature of the aluminum-hulled sailboat is a Faraday cage to conduct possible EMP spike voltages to ground, and thus protect electrical and communications equipment.

NAVIRE DE SURVIE: TECH SPECS

Lengths:

Overall, feet (meters) 49.54 (15.10)
At the waterline, feet (meters) 38.71 (11.80)

Widths:

Overall, feet (meters) 14.76 (4.50)
At the waterline, feet (meters) 12.96 (3.95)

Draft:

Centerboard up, feet (meters) 4.10 (1.25)
Centerboard down, feet (meters) 9.68 (2.95)

Weights:

Empty, pounds (metric tons) 33,075 (15)
Cruising, pounds (metric tons) 39,690 (18)
Condition for survival, pounds (metric tons) 48,510 (22)

Ballast weights:

Lead, pounds (kilograms) 9,921 (4,500)
On Centerboard, pounds (kilograms) 551 (250)
Total, pounds (kilograms) 10,472 (4,750)

Maximum water reserve, gallons (liters) 185 (700)

Maximum diesel fuel reserves, gallons (liters) 529 (2,000)

Hot water tank capacity, gallons (liters) 15 (60)

Engines, diesel (2):

SAE Horsepower, each 40-60

Maximum speed, 1 engine, at 40 bhp, knots 7

Maximum speed, 2 engines, at 40 bhp each, knots 9.5

Price, approximate, U.S. dollars \$200,000 +

Supplier Alain Bories

14, Cours du Buisson

77420 Noisiel

France

Phone: 33 (6) 017.12.92

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Flexible Fighter:

JU-JO

Punch dagger, garrote, and, of course, key ring . . .

Staff Evaluation

JU-JO, TRANSLATED from Japanese, means "flexible stick." That is a good definition for this versatile weapon that doubles as a key ring holder and combination garrote, bludgeon, roll of quarters and dagger.

It is essentially a hard plastic tube 5 1/2 inches long, 3/16 of an inch thick and 1 1/16 inches in diameter. At one end are two small holes for drawing and retracting a 14-inch-long loop of Type III parachute suspension line stored inside the tube. At the other end is a plug with a 1 1/4-inch diameter key ring. The plug can be removed for fitting the device with an optional punch dagger 41 millimeters long (about 1 5/8 inches).

BELOW — To deploy the cord, slip index finger of free hand through loop, pull cord all the way out, then form a fist.



Everything except the cord and key ring is made of super tough DuPont reinforced Zytel, a material used in military assault rifle stocks and handguards. Everything is dull black to reduce reflectivity. The Ju-jo weighs less than 4 ounces and is easily concealable. Its textured finish insures a firm grip.

The Ju-jo can be used as improvised hand or ankle cuffs, as well as a tourniquet or splint.

The hand weapon was invented by John



Made of tough Zytel plastic, the Ju-jo can be fitted with an optional knife plug.



J. Lewis, founder of ParaCombatives Martial Arts Institute at Northwestern University. Lewis, a former Army Special Forces officer, policeman, and prosecuting attorney, has taught self-defense to students, police and military personnel for 18 years. He holds a black belt in Judo and a 7th-degree black-and-white belt in Miyama Ryu Ju-jutsu.

ParaCombatives Institute is dedicated to development of an American system of self-defense responsive to the realities of urban violence. The Ju-jo and more than 300 techniques for its use against assailants are the result of three years of research by the institute.

The Ju-jo is supplied with a 21-page self-defense instruction manual containing numerous photographs and text detailing methods of gripping the weapon, striking, pressure applications, blocking, joint locking, strangulation, throwing, and techniques especially devised for women. These methods are adapted from Ju-jutsu fighting techniques, and are taught for use against single or multiple attackers, and armed or unarmed attackers.

Garrote—In teaching his students to use the garrote, Lewis cautions that choke holds can cause loss of consciousness within 30 seconds, and care must be taken to avoid killing one's opponent.

ParaCombatives Institute offers an 86-minute video tape, providing more detailed instruction in suggested uses for the Ju-jo. On the tape, Lewis states that the techniques he has devised are meant for people who have no firsthand knowledge of martial arts. But training with the Ju-jo is necessary, he adds, if the weapon is to be wielded effectively against attackers.

Evaluation—*American Survival Guide* staffers found the Ju-jo to be a sturdy, reliable piece of equipment, capable of performing all of the suggested techniques attempted. However, it is clear from studying the manual and video tape, and from practicing with the Ju-jo that its owner must train with it. Speed, timing and properly executed technique are essential.

The institute and its agents assume no responsibility for use of the Ju-jo by or against any person.

The Ju-jo is a credible defensive weapon in situations where defenders cannot legally arm themselves with more powerful weapons. It is legal to carry the Ju-jo in all 50 states, according to the institute.

The Ju-jo is priced at \$13.95, with self-defense manual, plus a \$3 shipping and handling charge. The knife plug is \$3 extra. The training video tape is \$39.95 postpaid. Add a 75-cent handling charge for each extra Ju-jo ordered. Illinois residents add 7 percent sales tax. For additional information, write ParaCombatives, Ltd., P.O. Box 7039, Dept. ASG, Evanston, IL 60201. ●

ATTENTION MAG LITE BUYERS

You already know Mag-Lite models have been universally accepted as the world's most versatile, reliable, and useful flashlights. Their sophisticated optics, economy, and rugged reliability have made them the choice of professionals and consumers everywhere. Great Lakes Dist. is a full line distributor. We stock all models plus every accessory. These include belt hangers, traffic wands, vehicle clamps, lanyard ring caps, Krypton bulbs and more.

INTRODUCTORY OFFER: Mag Chargers (30,000 candle power) \$110.00 retail - \$150.00
Mini-mag with \$5.00 nylon sheath \$16.95
both offers include shipping.

Free information on Mag-Lites. Or \$2.00 for catalog with survival gear, knives, etc. Dealers inquire Mastercharge or Visa.

Why not own the best and forget the rest.

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KAUFMAN'S WEST

presents

A MINI VIEW OF OUR NEW

(almost completed)

1985 MILITARY GOODS CATALOG

This Advertising Supplement to American Survival Guide Offers A Look at 3 Pages from Kaufman's Brand New Army & Navy Goods Catalog



Our new 1985 catalog — over 60 pages filled with genuine military clothing, gear, equipment and insignia.
\$2.00/each; free with any order.

For handy reference you may wish to remove these pages from the book (they'll lift right out of the stapled binding).

Kaufman's is a mail order firm with a unique philosophy. We're fully Customer Service oriented. This means immediate shipment; unconditional guarantee; toll free lines for orders, inquiries or complaints. As you deal with us you'll begin to see how our philosophy affects the way you're treated.



We're America's Army & Navy Store!!

We're Not The Cheapest !! But Then, We're Not Trying To Be.

For over 65 years the Kaufman name has been respected for offering the finest in genuine military goods and insignia. Our commitment to first rate service is legendary. Our service policy means:

- All in-stock items are shipped no later than the next business day regardless of whether you pay by check, money order, credit card or C.O.D. (There is a C.O.D. fee of \$4.00 in addition to the regular shipping).
- Toll free telephone lines direct to our Customer Service Department. We'll not only be glad

to take your order's (every firm with an 800 number will do that) but we'll also be happy to answer your questions. Whether you're calling to ask about our merchandise or the status of an order you placed, we guarantee friendly, courteous service.

No, we're not the cheapest. But you get what you pay for. If you order the cheapest you may wait a long time for delivery of something you may ultimately be unhappy with. If you order from Kaufman's you'll see why top quality merchandise and first rate service (with a Customer Service Department always available) will squeeze the most value out of every dollar you spend. **Call Toll Free 1-800-545-0933**

☐ Jungle Hats - US Military Issue -



These "Boonie Hats" are the real thing!! Brand new, complete with brass screened eyelets, cartridge holder hat band (except Desert Camo) and chin strap. Choose between:

- ☐ Leaf pattern camouflage, GI riptop; 100% cotton as used in Vietnam. Genuine GI \$14.00/each.
- ☐ Woodland Pattern camo, army's latest issue; 50% cotton/50% nylon Genuine GI \$12.25/each.
- ☐ Desert camouflage; just issued to the U.S. Rapid Deployment Forces. 50% cotton/50% nylon; Genuine GI \$12.25/each.
- ☐ Olive Drab (OD) Green; 100% cotton GI riptop as used in early Vietnam. Genuine GI \$14.00/each.

The following jungle hats are our finest quality commercially made copies at \$7.00/each. Select:

- ☐ Leaf Camouflage Pattern
- ☐ Tiger Stripe Camouflage Pattern
- ☐ Olive Drab Green (OD)
- ☐ Desert Tan
- ☐ Desert Camouflage
- ☐ Black

Specify size: S(7), M(7 1/4), L(7 1/2), XL(7 3/4).

SATISFACTION GUARANTEED

THE CAMOUFLAGE TIE
 The Basic Wardrobe Accentment for Every Well Dressed Merc.
 Donchathink?

GREAT GIFT IDEA!

Two great things about our ties:

First, they're made especially for us in the USA from genuine GI woodland camo material of 50% cotton/50% nylon so they can be washed or dry cleaned.

Second, they go equally well with anything in your wardrobe, from your most formal blue pin stripe suit to your Hawaiian shirt with the funny looking fishes on it.

Choose from: Pointed end (traditional and conservative) or Straight End (punk and iconoclastic) \$9.95/each; 2 for \$18.95.

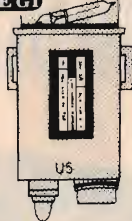
SUPER SPECIAL!
\$10.00 OFF ANY STROBE LIGHT.

Offer good for this Survival Guide Advertising supplement only!! To get sale price you must mention this issue of Survival Guide. Offer good thru July, 1985

☐ Distress Marker **GENUINE GI** Rescue Strobe Light—

This is a high intensity strobe beacon which penetrates rain and fog and is visible for distances up to 15 miles. Standard pilot survival gear. This light is about the size of a pack of cigarettes (1" x 2" x 4 1/2") yet it puts out a dazzling white flash (250,000 lumens) 50 times per minute for up to 9 hours. The unit is waterproof and shockproof. Sold complete with case and 1 battery. **\$39.50/each.**

Replacement Batteries for Strobe Light \$10.75/each



All Orders Shipped Within 24 Hours

☐ US Navy Style Commander's Cap with 'Scrambled Egg' Visor—

This cap features a mesh back and fully adjustable headband to fit all heads comfortably. Choose: Navy Blue or Black **\$5.75/each.**



SHIPPING COST

Please include appropriate shipping costs from chart below with each order. Amounts shown include costs of postage, packaging, insurance and handling.

Orders up to \$10.00	\$3.00
Orders from \$10.01 to 20.00	3.75
Orders from \$20.01 to 35.00	4.50
Orders from \$35.01 to 50.00	5.25
Orders from \$50.01 to 70.00	6.25
Orders from \$70.01 to 90.00	7.25
Orders over \$90.00	8.00

Canadian Orders-Send Double Amount Indicated.

☐ Black Commando Dog Tag Set —

A Kaufman's Exclusive

2 GI stainless steel tags, specially treated to be non glare flat black plus 2 black (4" and 24") ball chains. **\$5.00/set**

☐ Regulation GI Dog Tags—

set of 2 stainless steel tags and 2 stainless chains (4" and 24") **\$3.00/each**
 Want us to print them? WE'LL PRINT ANYTHING up to 6 lines and 15 spaces per line.

☐ Printing only \$1.00 per tag (\$2.00 per set)

PLEASE, NO DOG TAG IMPRINTING ORDERS BY TELEPHONE.

☐ Military Elite Distinctive Dog Tags—

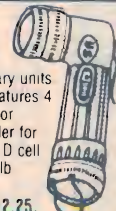


We've taken the official distinctive insignia of elite professional troops and affixed them to a genuine GI tag. Sold with 4" stainless chain. perfect for use as a keychain or worn with your dog tag set. Choose the elite dog tag of: Special Forces; Airborne/Rangers; Paratroopers; USMC Recon; USMC Globe & Anchor; 101st Airborne; or 82nd Airborne **\$6.00/each.**

☐ Dog Tag Silencers - black, non glare rubber bumpers for tags. **\$1.00/pair**

☐ Angle Head Flashlite—

This is the heavy duty olive drab plastic flashlight issued to all military units. The flashlight is waterproof, non-glare and features 4 different lenses which can be easily installed or removed. It can clip onto the belt or suspender for hands free operation, operates on 2 standard D cell batteries and comes complete with a spare bulb. Brand new, sold in the GI box **\$6.50/each; 2 for \$12.25.**



NEW for 1985!

☐ Camouflage Angle Head Flashlight — Styled exactly as above except that switch is protected and body is in new Woodland Camouflage Pattern. Brand New **\$8.50/each; 2 for \$16.75.**

KAUFMAN'S WEST ARMY & NAVY GOODS • ORDER TOLL FREE 1-800-545-0933 — CALL MON-SAT; 9:00-7:00 (Mountain Time)

BATTLE DRESS UNIFORM (BDU)**GENUINE GI**

Originally worn in the jungle of Vietnam, the general features of the GI combat battle fatigues are as follows:

Pants—cut full for complete freedom of movement these feature drawstring cuffs and adjustable pull tab waists. For maximum utility, they are constructed with 6 pockets, 2 of which are large belloved cargo pockets, on the thigh.

Shirt/Jacket—also cut full, these rugged versatile fatigues feature 4 pockets (2 breast pockets and 2 huge belloved hip).

Sizes—military waist sizes are XS, S, M, L, XL. Length sizes are regular and long. Not all length sizes are available in a particular style. For best fit, please tell us your waist, chest, inseam and height and we'll try to find the right size for you. Remember that jungle fatigues fit completely different than a pair of jeans.

Woodland Camouflage**Pattern BDU's—GENUINE GI**

These 50% cotton, 50% nylon fatigues are the latest issue to all services. In these Woodland BDU's the military has combined complete utility and freedom of movement into garments made to last for years of hard wear.

The fabric combination of breathable, comfortable cotton combined with the nylon seems to make them indestructible. The seat and knees in the pants, and the elbows in the jackets have been reinforced. The bellows pockets are even roomier than the jungle fatigues that were the predecessor to the BDU. These are a best bet for the hunter, sportsman or outdoorsman who wants clothing that he can depend on season after season. **Brand New.**

Specify: Jacket or Pants \$30.00/each; \$57.50/set

Desert Camo Pattern BDU's—GENUINE GI

These day desert pattern BDU's are the current issue to the US Rapid Deployment Force who have been trained for warfare in the Middle East. These are designed exactly like the Woodland Camouflage Pattern BDU's described above, complete with reinforced knees and seat. **Brand new. Specify: Jacket or Pants \$34.00/each; \$65.00/set.**

Olive Drab (OD) Green Jungle Fatigues—GENUINE GI

These were one of the first jungle fatigues used in Vietnam. They were phased out in the late 1960's and early 1970's. These 100% cotton ripstop fatigues are currently being manufactured under a government contract to the original military specs. **Brand new. Specify: Jacket or Pants \$30.00/each; \$57.50/set.**

Tiger Stripe Camouflage Pattern BDU's

These are made by a US Government contractor to military specs. The tiger stripe pattern is true. They are reinforced as the Woodland Pattern BDU's above. Regular lengths only (no longs). 50% cotton 50% nylon.

Brand new. Specify: Jacket or Pants \$34.00/each; \$65.00/set.

Solid Black BDU's

A favorite of SWAT teams, these fatigues were manufactured in the US by a government contractor to military specs. 50% cotton/50% nylon, these are reinforced as the GI Woodland Pattern above. Regular lengths only (no longs). **Brand new.**

Specify Jacket or Pants \$34.00/each; \$65.00/set.

Urban Camouflage Pattern BDU's -

A strikingly different camouflage, our urban camo may be the SWAT alternative to the solid black or woodland camo. The Urban pattern? Well, visualize a leaf or woodland design with the colors being various shades of grey and solid black. Now you can understand why we say it's a striking alternative to the uniforms you've seen.

Our Urban Camo BDU's are durable, easy care 50% cotton/50% polyester fabric and are manufactured in the USA to military specifications. So, the pants have a reinforced seat and knees, the jacket has reinforced elbows. Also featured are: pull tab waist, drawstring cuffs, covered buttons and the attention to every small detail which you've come to expect. **Brand New. Sizes: XS, S, M, L, XL.**

Regular Lengths - Specify: Jacket or Pants \$34.00/each; \$65.00/set
Long Lengths available in Pants only S, M, L \$34.00/each; \$65.00/set

Woodland Camouflage Pattern BDU's -**Lightweight, Warm Zone Wear -****100% cotton, Ripstop**

One of the loudest complaints voiced by our troops during and after the US incursion into Grenada was that the fatigues they were wearing were too heavy and warm. No wonder - the GI Woodland BDU's are half cotton/half nylon and constructed to be for general use year-round. So, in a warm, humid climate they could seem almost oppressive especially to troops pursuing an activity as strenuous as fighting a war.

After Grenada the US military quickly designed lightweight BDU's for wear in Warm Climate Zones. Kaufman's has secured an over-run of fatigues under consideration for issuance to all troops. Our lightweight BDU's are made in the USA (of course) by a military contractor. They offer all the features of the Woodland BDU's, standard weight. That is, they are in the Woodland Camouflage Pattern and feature reinforced knees and seat, pull tab waist, drawstring cuffs, quality construction, covered buttons, etc. The lightweight fatigues however are 100% cotton, woven in a ripstop design. So they are lightweight, cool and comfortable, yet very durable.

Presently our Warm Zone Lightweight Woodland BDU's are available **only in regular lengths (no longs)**. However, in time long lengths may become available, so feel free to call our Customer Service Department on our toll-free line to learn about our current inventory. **Brand New. Specify: Jacket or Pants \$30.00/each; \$57.50/set**

Used Camouflage Jungle Fatigue Jackets -**GENUINE GI**

We have a limited supply of used, leaf pattern camouflage fatigue jackets. These are the old style, used in Vietnam,

and so are in the 100% cotton ripstop fabric.

All of the jackets we have on hand are size small. These used Camo Jungle Jackets are Grade II's which means each jacket has been repaired and some of the repairs are very noticeable. However, each jacket is completely serviceable and we have cleaned them after the repairs were made. Kaufman's guarantees your satisfaction so you can buy with confidence. **Sizes: Small only. Length:**

☐ **Short** \$9.75/each
☐ **Regular or Longs** - (Note - longs are very limited. Advise us when ordering if we may substitute a regular length if we are sold out on longs) \$12.75/each

Used, OD Green Jungle Fatigues -

limited supply available - exactly as above, in excellent condition, cleaned and repaired as necessary:

■ Pants

☐ **Short length - small or medium waist** \$18.75/each
☐ **Regular or long length - small or medium waist** - (Note - long lengths are in very short supply. Advise us if you can accept a regular length if we are sold out on longs. Large and extra large waists are not available) \$22.75/each

■ Jackets - Only size extra small and small are available

☐ **Short length** \$14.75/each
☐ **Regular and long length** - (Note - longs are in short supply. Advise us if you can accept a regular length if we are sold out on longs) \$19.75/each

CAMO FATIGUES—COMMERCIAL MANUFACTURE—

These are closeouts that are offered as supplies last. Drastically reduced in price from our last catalog; when these supplies are gone we will have no more. Most of our commercial fatigues are made from GI Woodland Pattern Cloth. Some (very few) are in leaf pattern. Specify if you have a firm preference but remember Murphy's Law and expect disappointment. **Sizes: Order by waist and length measurement in inches.**

☐ **Standard Fatigue Style**—The pants have 4 pockets, the shirts have 2 pockets. **Brand new.** In our last catalog, these sold at \$19.75/each. **Specify: Pants or Shirt \$14.75/each.**

BASIC MILITARY PANTS, SHIRTS & FATIGUES—

The features of the basic military pants, shirts and fatigues are that the pants have only 4 pockets and the shirts have only 2 pockets. This differs from the Battle Dress Uniform featured on page 1 in which the pants have 6 pockets and the shirts 4.

Fatigue Pants & Shirts—Olive Drab Green—**GENUINE GI**

These are the standard 4 pocket fatigues that recruits in all the services have been issued for years.

Please review the size information offered regarding the Chinos so that you properly select and we properly ship the correct size. Remember, these don't fit like a pair of Levi's. Many sizes in both the new and used fatigues are available in 100% cotton or easy care, permanent press 50% cotton/50% nylon. If you have a preference please tell us—Also tell us if we may substitute if your first choice in content is not available.

■ **NEW Fatigue Pants: Sizes: Waist—24, 26, 28, 30, 32, 34, 36, 38, Length 31" (regular) or 33" (long) \$17.75/each.**

■ **USED Fatigue Pants: Sizes: Waist—28, 29, 30, 31, 32, 33, 34, 36, 38, 40. Length—short and regular (very few longs) \$10.75/each.**

☐ **Grade I (very good condition) \$11.25/each.**

☐ **Grade II (fair to good condition, repaired as necessary, may have some stains) not always available \$9.00/each.**

■ **USED Fatigue Shirts—these have 2 breast pockets and are long sleeve.**

Sizes: S, M, L, XL.
☐ **Grade I (very good condition) \$9.75/each.**
☐ **Grade II (fair to good condition), repaired as necessary, (may have some stains) not always available \$7.25/each.**

NEW! Urban Camo T-Shirts
(In fact we have a T-Shirt to match every BDU we sell.)

MILITARY SIZE CHART

BDU PANTS:	XS	S	M	L	XL
WAIST	up to 27"	27" to 31"	31" to 35"	35" to 39"	39" to 43"
LENGTH (Inseam)	Regular - 29½" to 32½" (Approx. Height of wearer up to 5'11") Long - Over 32½" (Approx. Height of wearer over 6')				

BDU and Field Jackets (M65) and Flight Jackets (MA-1)

JACKETS:	XS	S	M	L	XL
CHEST	up to 33"	33" to 37"	37" to 41"	41" to 45"	45" to 49"
LENGTH	Regular - (Height of wearer 67" to 71") Long - (Height of wearer over 72")				

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T-SHIRTS

We guarantee you'll be pleased with our shirts. Each is made in the USA, and is the finest quality offered at the right price. And check out our selection!! Please specify size: S, M, L, XL

Camouflage T-shirts—

■ **Short Sleeved; Perfect Quality—** each shirt is 50% cotton/50% polyester \$7.00/each; any 3 shirts for \$18.00

Choose from:

- ☐ Green Leaf Crew (round) neck
- ☐ Green Leaf V-neck
- ☐ Brown Leaf Crew (round) neck
- ☐ Desert Camouflage Pattern-crew neck
- ☐ Tiger Stripe Camouflage Pattern-crew neck



Olive Drab (OD) Green T-Shirts —

these shirts are 100% cotton in that famous, exciting (?) color.

- **Short Sleeve—Crew Neck—**(note—some of our purchase lots may be 50% cotton/50% polyester. Please advise us if this is not acceptable) \$4.75/each; 3 for \$13.00
- **Short Sleeve—V-Neck—**(note—these are available only in 50% cotton/50% polyester) \$4.75/each; 3 for \$13.00

Urban Camouflage T-Shirt — The pattern consists of black and various shades of grey in a woodland camo configuration. A striking design!! 50% cotton/50% polyester. Sizes: S, M, L, XL\$8.00/each; 3 for \$23.25

Brown T-Shirts— **GENUINE GI**

These are the latest issue T-Shirts for wear with Camo battle fatigues. 100% cotton, slight irregular \$3.75/each; 3 for \$9.50

Black T-Shirt — solid black to match our black SWAT BDU's. 50% cotton/50% polyester. Sizes: S, M, L, XL\$6.00/each; 3 for \$17.50

NEW For '85! Fishnet Mesh Camouflage Shirts —

A runaway best seller: Camouflage T-Shirts and Tank tops in a fishnet mesh material! The T-Shirt is short sleeved and the Tank Tops are designed like our standard tank tops.

The big difference is in the look of the material. The small mesh design is guaranteed to keep the wearer super cool (and looking super cool!!). 50% cotton/50% polyester. Sizes: S, M, L, XL. Choose: ☐ T-Shirt\$12.00/each; 2 for \$22.75

☐ Tank Top\$10.50/each; 2 for \$19.75

Athletic Bundeswehr Tank Top—

These lightweight 100% cotton white tank tops are genuine issue to the West German Military troops to wear during physical training exercises. "Bundeswehr" (the name of the West German Army) is proudly embroidered above their crest on the front of the shirt. Both are sewn in black and uniquely contrast the stark white tank top.

This comfortable, cool, European tank top is stylish, avant-garde, and perfect to wear while working out or relaxing in the summer sun. Sizes: XS, S, M, L, XL.

Brand New\$9.75/each

NEW For '85! Mesh Camo Tank Top—

Designed the same as our camouflage tank top but in a fishnet, mesh material. This shirt promises to be a runaway best seller! S, M, L, XL. \$10.50/each; 2 for \$19.75

Tank Tops —

Designed in the old "athletic" t-shirt style with a 2 1/2" wide strap over the shoulder, these are extremely cool and comfortable for summer wear. Cut low under the arms and neck, the tank top allows free movement and comfort in every activity. Great fashion look for men and women. Choose: **Olive Drab (OD) Green or Camouflage**

Sizes: S, M, L, XL\$6.00/each; 3 for \$16.50

Muscle Shirts—

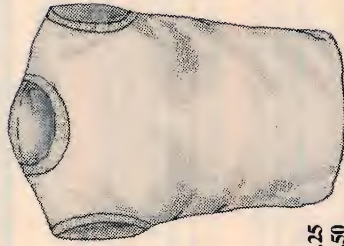
These sleeveless crew neck shirts are now a fashion statement, worn by men and women. A comfortable blend of cotton and polyester make these excellent summer shirt.

Sizes: S, M, L, XL

Choose:

- ☐ Oxford Grey
- ☐ Black
- ☐ Lavender
- ☐ Fuchsia
- ☐ Camouflage, of course
- ☐ Olive Drab (OD)

Colors\$4.00/each; 3 for \$11.25
Camo and OD\$6.00/each; 3 for \$16.50



TRAIL SHORTS

These are our most popular shorts. They are cut full and provide a very comfortable yet stylish fit. They feature 6 pockets (four in front and 2 in the back) which makes them a favorite for hikers, backpackers, birdwatchers, accountants, and people with mustaches.

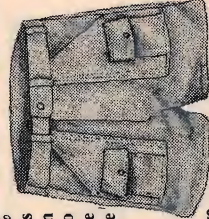
The content of the khaki and olive drab shorts are a comfort, easy care blend of cotton and polyester. The camouflage shorts are 100% cotton. (However, there may be some 100% cotton shorts available in khaki and O.D. and some polyester and cotton shorts in the camouflage. If your preference extends to these alternatives, please specify in your order and we will try to comply as supplies last). All trail shorts are made in the USA.

Sizes: 26, 27, 28, 29, 30, 31, 32, 33, 34, 36, 38.

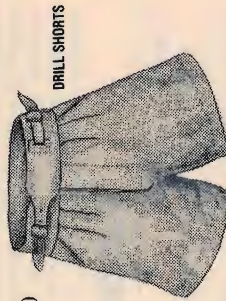
Prices: \$14.00/each; any 2 pair for \$25.00

Select from:

- ☐ Khaki (tan)
- ☐ Olive Drab (OD) green
- ☐ Camouflage (leaf/woodland pattern)



TRAIL SHORTS



DRILL SHORTS



BUNDESWEHR TANK TOP



US WALKING SHORTS

JOGGING SHORTS

Ours are stylish shorts made in the USA that feature a trim fit and fashionable good looks. Perfect whether worn for a hard workout or as trend setting fashion. SIZES FROM XS TO XL.

TELL US YOUR WAIST SIZE WHEN ORDERING.

The following shorts are 50% cotton, 50% polyester \$6.50/each.

- ☐ Woodland Camouflage Pattern
- ☐ Desert Camouflage Pattern
- ☐ Olive Drab (OD) Green
- ☐ Khaki (tan)



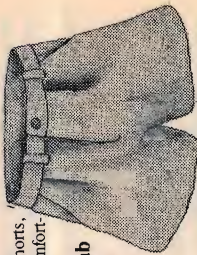
GENUINE GI

MISCELLANEOUS SHORTS

■ **Gerka Shorts**—One of our most popular shorts, the Gerka short features a pleated front for a stylish, comfortable fit. These shorts offer 3 pockets and a button fly.

Select: **Khaki (tan) in 100% cotton; Olive Drab (OD) in 100% cotton or Woodland Camouflage Pattern in 50% cotton/50% nylon.**

Sizes: 26, 27, 28, 29, 30, 31, 32, 33, 34, 36\$15.75/each.



Drill Shorts —

Named after British Army Military Drill trousers, these 100% cotton knee length shorts are one of our most popular sellers.

The cotton material is durable yet lightweight and very comfortable. Worn long for added sun protection or rolled up during more active times these drill shorts are versatile and great looking. The buckled waist belt simultaneously provides a slightly adjustable fit and a fashionable avant-garde look. Two huge front pockets and two buttoned back pockets hold anything you may need. These military style shorts with pleated front add a dash of style and flair to any summer wardrobe.

Please specify waist size in inches when ordering.

Choose: **Khaki, White or Olive Drab Green.**

Sizes: 24-26, 26-28, 30-32, 32-34\$19.75/each

U.S. Walking Shorts —

These are the familiar military style walking shorts of Great Britain and the USA. They are made right here in the USA of the finest quality durable twilled material. The khaki shorts are constructed of 100% cotton and tiger stripe are a blend of 65% polyester and 35% cotton. They are cut long (the leg is approximately 16", inseam about 7-8" on average) so they go almost to the knee. These should last many seasons and get more comfortable with each washing.

Choose: **Khaki or Tiger Stripe**

Sizes: 27, 28, 29, 30, 31, 32, 33, 34, 36, 38, 40\$19.75/each

SHIPPING COST

Please include appropriate shipping costs from chart below with each order. Amounts shown include costs of postage, packaging, insurance and handling.

Orders up to \$10.00	\$3.00
Orders from \$10.01 to 20.00	3.75
Orders from \$20.01 to 35.00	4.50
Orders from \$35.01 to 50.00	5.25
Orders from \$50.01 to 70.00	6.25
Orders from \$70.01 to 90.00	7.25
Orders over \$90.00	8.00

Canadian Orders—Send Double Amount Indicated.

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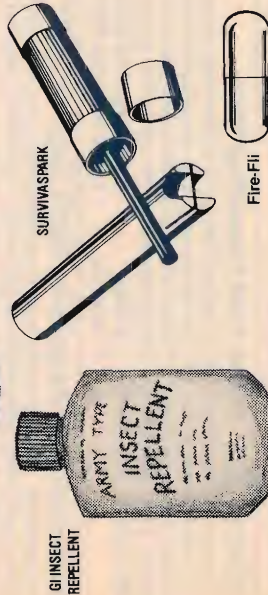
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SURVIVAL LIGHTER

MAGNESIUM
FIRE STARTER

SURVIVASPARK

Fire-Fli

GI Formula Insect Repellent —

After much study, the US military designed a formula for their insect repellent that was effective from both a cost and repellent standpoint. Our GI Formula Insect Repellent is an exact duplicate of the military's formula.

Odorless, colorless and non-oily, our GI Formula contains 71% DEET (DEET is the only active ingredient found in any insect repellent). This is far more than most of the commercial brands on the market even the most well-known. (Compare the labels — you'll see what we mean.) So it's effective against everything from ticks and chiggers to mosquitoes and gnats.

The GI Formula uses an alcohol base which enables the repellent to easily apply a thin coat of the product to exposed skin and clothing.

Although the GI Formula Repellent has less DEET than our Maximum Strength Insect Repellent, it has more than most brands and spreads on easily. Use this and you'll never want Cutter again!

Compare our price! Our GI Formula Insect Repellent is a fraction of the cost of others for 2 full ounces. Military quality at an unbeatable price.

2 oz, unbreakable plastic bottle \$2.95/each; 3 for \$7.95

Maximum Strength Insect Repellent —

The actual chemical that is the active ingredient in all insect repellents has about 30 letters and almost as many syllables. The short name for it is DEET. Our insect repellent is 95-100% DEET.

It may surprise you to know that most of the well known insect repellents on the market (including the military's) contain surprisingly little DEET. In fact, many of the most well known contain about 50% or less DEET.

Our Maximum Strength Insect Repellent is almost odorless and requires only a couple of drops to provide protection for up to 10 hours. Because it's so concentrated, it takes much less to do a better job. That means your skin doesn't have to be drenched with insect repellent as seems to be the case with other repellents.

Perfect for all outdoorspersons, our Maximum Strength Insect Repellent provides protection from flies, ticks, mosquitoes and other pesky insects. Try it — you'll be amazed at how effective it really is.

Choose:

- ☐ 1 oz, unbreakable plastic bottle \$4.00/each
- ☐ 2 oz, economical plastic pump spray bottle \$6.00/each

— FIRE STARTING TOOLS —

Magnesium Fire Starting Tool — **GENUINE GI**

When you're cold and wet, this item can be a lifesaver. In two easy steps, the Magnesium Firestarter and any knife will create a 5400 degree Fahrenheit heat source, hot enough to start any combustible material burning. Just shave a small portion of the magnesium off the block and arrange it in a pile amidst your tinder, scrape the sparking insert that's built into one side of the tool, and you have a fire going! Magnesium firestarters are included in the survival kits used by the U.S. Army's Special Forces and Great Britain's Special Air Service because they are absolutely reliable, even in wind or rain. The tool will even light damp combustibles, and a single 3-ounce tool will start hundreds of fires. Safe to carry in solid form, the tool comes with a chain for securing it to your gear. Whether your stomping ground is the Falklands or Grenada; or if you're a weekend camper or pilot, this is one inexpensive necessity you shouldn't pass up.

..... \$6.00/each; 2 for \$10.75.

Survival Lighter — **GENUINE GI**

At last a U.S. Government issue butane lighter! These high-quality survival firestarters are part of the US Special Forces tropical survival kit. They are waterproof & nearly indestructible. The compact aluminum body is 2½ inches long and ¾ inch in diameter so it fits easily in your pocket or survival gear. Because the Survival Lighter is charged with pressurized butane, you need never worry about lighting a fire in wet weather and having a damp wick or soaked matches. The Survival Lighter will deliver hundreds of sure, quick flames on a single charge of butane. It is completely refillable with standard butane lighter cartridges, and the flint is easily replaced for a lifetime of dependable service.

We believe you'll find the Survival Lighter to be the finest butane lighter available, even if you only smoke a pipe in your home. An indispensable item for hunters, fishermen, military personnel, pilots and others whose lives depend on a reliable source of fire. Solid fully charged.

..... \$9.75/each.

Survivaspark & Fire-Fli —

Survivaspark — A space-age fire-making tool with the simplicity of the mountaineer's flint and steel, Survivaspark is a self-contained sparking unit, that provides thousands of starts. The size of a fountain pen, Survivaspark separates to become a scraper and bar, and will easily ignite the "Fire-Fli", a small, chemically treated pellet, which comes stored in the Survivaspark. No other tools or supplies are needed! Survivaspark can also be used to ignite propane stoves, grills, heaters and lanterns. An indispensable, reliable source of fire in an emergency as well as a safe, convenient method of starting a routine campfire, the Survivaspark tool has a place in every outdoorsman's pocket.

The Survivaspark addresses the main disadvantage of the military Magnesium Firestarting Tool. That is, in time the Magnesium Tool will dull any knife used to shave the magnesium in preparation of ignition. The Survivaspark contains its own scraper bar to easily ignite the Fire-Fli.

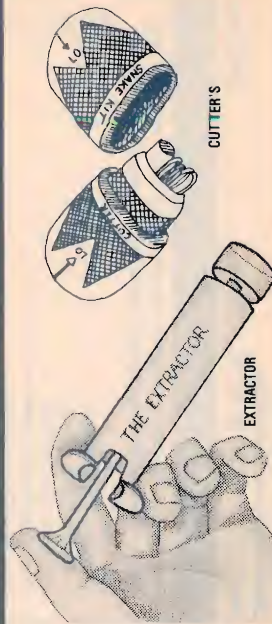
Fire-Fli — companion to the Survivaspark, is a long-burning, weather-resistant, chemical kindling. When ignited, the Fire-Fli burns for approximately six minutes with a 4" flame, and will continue to burn in rain and wind. (That's right — it's a waterproof flame!) The long life of the Fire-Fli allows the survivor to ignite a very wet fire, or several signal fires. The Fire-Fli can be extinguished and quickly reignited to move the heat source from place to place. One Fire-Fli comes with the Survivaspark tool, and additional Fire-Flies are available in packages of eight.

- ☐ **Survivaspark and one Fire-Fli** \$7.75/each
- ☐ **Fire-Fli Pack** (8 per water repellent box) \$3.75/box, 2 boxes for \$7.00

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CUTTER S

EXTRACTOR

— SNAKE BITE KITS —

☐ **Cutter's** — designated "official" by the Boy Scouts of America, this is the most widely used snake bite kit in the world! All items necessary to extract the poison and save a life are contained in this small, lightweight kit. (You may wish to consider purchasing the Cutter Ice Cold Compress to take with you in the field. See elsewhere on this page) **\$5.95/each**

☐ **The Extractor** — This is the state of the art in bite and sting treatment kits. Safest because there's no reason to use dangerous scalpel blades which invite injury and infection. Moreover, simple one handed operation of this patented suction device permits the unaccompanied victim to administer self treatment no matter where the bite is.

The Extractor Kit includes: antiseptic, bandaids, tourniquet, and easy reading instruction booklet.

Compact and lightweight \$14.75/each

Cutter Ice-Cold Compress — Amazing discovery!!

This chemically activated instant ice compress needs no refrigeration. Lightweight, this is the perfect addition to any first aid kit for treatment and comfort of everything from bites to sprains **\$2.50/each; 2 for \$4.25**

Chigg Away —

The primary purpose of Chigg Away is to repel chiggers and only chiggers. In meeting this goal it's the best!

The active ingredient in Chigg Away is sulfur not DEET. DEET is the best for protection against just about every insect. But when it comes to chiggers, only a sulfur based product seems very effective. And there are locations (perhaps the one you're planning to travel to in the near future) where the worst insect threat is chiggers. As anyone who has had a bout with chiggers can attest, they are just loads of fun to be around.

Chigg Away also contains benzocaine for topical relief from itching caused by insect bites or poison ivy or poison oak.

Believe us. Chigg Away is very inexpensive personal insurance if you're planning a trip to the woods. (We know of no other readily available sulfur based preparation.)

4 oz, plastic unbreakable Olive Drab (OD) green squeeze bottle . . \$4.50/each; 2 for \$8.50

SHIPPING COST

Please include appropriate shipping costs from chart below with each order. Amounts shown include costs of postage, packaging, insurance and handling.

Orders up to \$10.00	\$3.00
Orders from \$10.01 to 20.00	3.75
Orders from \$20.01 to 35.00	4.50
Orders from \$35.01 to 50.00	5.25
Orders from \$50.01 to 70.00	6.25
Orders from \$70.01 to 90.00	7.25
Orders over \$90.00	8.00

Canadian Orders—Send Double Amount Indicated.

COMPUTERPHOBIA

By George Hugo

Overcoming ignorance and the unwillingness to learn is like surfing the curl on the wave of the future . . .

George Hugo is a long-time journalist, writer of numerous magazine feature articles, and a man who subscribes to the survivalist philosophy. His work, under his own and various noms des plumes has appeared in national magazines about motor vehicles, aircraft, trucks, firearms, homes, data processing, livestock management, alternative energy, and education. He confesses to having been a computerphobic, reluctant to break with his familiar, comfortable typewriter and his oft-sharpened editing pencil. This article, in part, details the methods by which author Hugo overcame the disease, healed himself and became an enthusiastic computerophile. Hugo expresses the belief that computers are a survival tool in terms of today, and certainly for tomorrow. This article was written and edited on George Hugo's personal microcomputer.

COMPUTERPHOBIA IS the term for unreasoning fear of computers. It is a reflection of ignorance and unwillingness to learn. If you, reader, have not yet wet your feet in the world of computing, you would do well to do so—for survival. Survival, in this context, means survival at all levels of human experience, from home management and writing letters, to conducting a small business profitably, to engineering research and paramilitary tactics.

Contrary to popular belief, computers cannot do everything. A computer is merely an electrical device that is only capable of recognizing the difference between 0 and 1, really just "On" and "Off," high

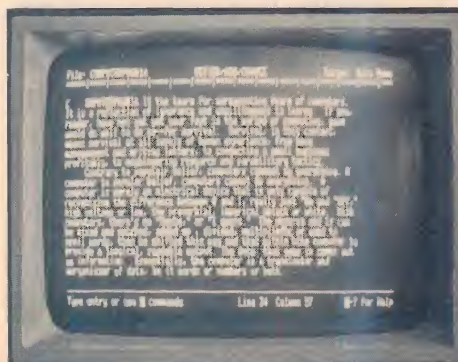


The author uses a PC (personal computer) to write this article. The system includes keyboard/computer, two disk drives, a monochrome monitor, and a dot-matrix printer.

voltage or low, the proverbial, imperial black or white. With computers, there's no "Maybe," or "I guess." The zeros and 1s can be mixed and matched, added up, divided, multiplied, or used to spell words, then be shifted this way and that within the computer to provide a logical, readable output. The data that goes in comes out as

information. Essentially, the computer is a translator and organizer of data, be it words or numbers or both.

Computerphobia emerges when a person who knows little math is faced with the prospect of a machine that, when properly programmed and keyboarded, can *do* complex math. The fear of electromech-



Here is the first paragraph on the video display terminal's screen. Note that several words are misspelled.



The speller/dictionary program starts to look over "Computerphobia."



It counts the words in the first two paragraphs—137 words, and 23 possible mistakes.

COMPUTERPHOBIA

anical computing arises in individuals who don't write much when they learn of a computer's ability to simplify editing chores, spell words correctly, and even recommend rephrasing of sentences to improve brevity or clarity.

A computer is a keeper of lists (*databases*) such as telephone numbers, addresses and names—or inventories. It is a bookkeeper with ledgers (spreadsheets), and the ability to add and subtract, then flash the legendary "bottom line" on the screen. The writing function, editing, spelling, grammar and general polishing of letter or manuscript (*documents*) is the *word processing* capability of the computer. All is accomplished with zeros and 1s, mixed, matched, mated and manipulated according to a precise program.

'Computer functions can be directly related to the business of survival.'

History—In the 1940s—the World War II era—computers were developed from electromechanical business machines. These early computers were, for instance, employed in such tasks as directing gunfire from naval vessels onto enemy positions. At about this time, the first all-electronic computers were built, using great banks of vacuum tubes. These computers were huge, sometimes taking up entire three- or four-story buildings and, legend has it, dimming the lights throughout a city when one of these clumsy giants was switched on. These computers were called "Brains" in the press. Because they were huge and complex, they gave rise to computerphobia.

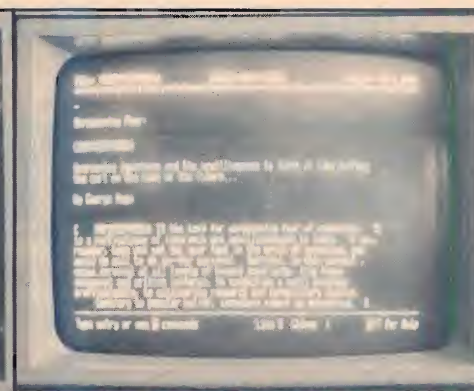
About the time of the Eisenhower administration, the first commercial computer, UNIVAC 1, was built. In the 1960s, the third generation of computers, represented by the IBM 360 and its ilk, became popular and proliferated among U.S. businesses and institutions. For example, college students began to receive their grades as computer printouts. The IBM 360's math and engineering capability helped the U.S. get an edge on the Soviet Union in the "race for space" by speeding up computations that helped land American astronauts on the moon in 1969.

By the mid-1970s, the first so-called personal computers were on the market. This was the direct result of quantum advances in silicon chip technology. Chips, about the size of a little toenail, now could accommodate as much data as a building full of vacuum tubes, or a second-generation computer of refrigerator size that was built with diodes, instead of tubes.

From this point on, events occurred rapidly in the computer world, and the action hasn't stopped yet. Contrary to a



ABOVE—And then the speller/dictionary program highlights the misspelled words and directs the computer operator to correct them.



ABOVE—Here's the finished first paragraph of "Computerphobia," clean and tidy—representative of the computer's word-processing capability.

BELOW—Finally, here is the "hard copy," fed from disk storage to the dot-matrix printer.



BELOW—The computer's keyboard is much like that of a typewriter—with a few minor exceptions.



halt being forecast, predictions are that computerization of the U.S. is only now beginning, and that it is increasing at some high exponential rate.

The Personal Computer—Though there are more than 2,000,000 personal computers now owned by Americans, that figure represents less than 0.6 percent—a mere 6/10th of 1 percent—of the general population. Clearly, there is room for additional personal computers (*PCs*) in the U.S.

The PC, or "*microcomputer*," as it is called, is in use in numerous businesses and households as a tool to organize data and present information in ways that are at once more useful and more rapid than information derived by earlier conventional means. Speed and accuracy are the computer's hallmark.

As chip technology has become more refined, computers have become simultaneously smaller in size and vastly larger in memory capacity. The larger the memory—or memories—within a computer, the greater is the capability of that computer. As an example, in 1980, the personal computer was as big as a breadbox and could hold one loaf of bread; now the computer is as large as a lunchbox and can hold a dozen loaves of bread.

Most personal computers have, in the beginning, medium-to-large memory capacity. However, this can be upgraded by insertion of additional chip circuit

"boards" inside the computer, where there is "always room for one more."

What It Does—When so programmed, a computer accepts data—usually input with a typewriter-like keyboard. Then it stores the data on a magnetic disk or magnetic tape, though disks appear to be the most popular storage medium at present. On program command, the computer processes—organizes and interprets—the stored data, then, also on command, coughs it up on a video monitor, the TV-like screen, or on a typewriter-like printer.

What goes into the computer as input is called "*data*," and what comes out, after processing, is called "*information*." For example, addresses entered randomly, with a keystroke, can be alphabetized A to Z, or presented numerically by Zip Code.

What the computer does with the data in and the information out is all according to a very detailed plan, called a "*program*."

Nowadays most programs are "*user-friendly*," meaning they say, "Hello," and then provide a list of services that this particular program can perform. This list is called a "*menu*," as in a restaurant. The operator—you—chooses the desired function with a keyboard stroke, and the computer does the job, all the while keeping the work stored in memory as information. The finished job, a database list, a bookkeeper's ledger/spreadsheet, or a writer's manuscript or secretary's finished letter can be translated into "*hard copy*," i.e.,



In this system, the operating (program) disk goes into one side of the disk drive element, and the copy disk goes into the other.

put on paper by a "peripheral device" known as a printer, which is no more than a fast or even not-so-fast typewriter hooked up to the computer's output side.

As you may have discerned by now, most of the italicized words above are from the lexicon of "computerese" which to some who have not taken the trouble to learn this jargon is the basis for their computerphobia.

The computer can take the secretary's finished letter, say, and address it to 26 different sales managers across the country, and insert personalized salutations and paragraphs, all the while she's off having coffee. Or, with additional peripheral telecommunications equipment, the computer can dial the telephone and send the letter over WATS or Sprint telephone lines to the 26 different offices simultaneously. Of course, the other offices must be equipped with "compatible" equipment (hardware) and telecommunications "software," or programs.

Software—One of the things a lot of people say when it's suggested that they could benefit from ownership of a personal computer is: "I don't know how to type." This is the excuse of a wimp computerphobic. The answer to this computer dodger's statement is this: "The computer will teach you to type." Among many software programs are some very effective typing lessons that can start a typist from scratch or bring a rusty typist up to speed.

"Software, what's that?" you may ask. Software is a program—on tape or a phonograph-record-like disk—that's "loaded" into the computer physically and electronically. The computer "reads" and memorizes the instructions on the program disk or tape, then announces its readiness to do business, your business, whatever it may be, within the scope of the software program. And there are thousands of special software programs that can do just about anything.

"I've never had a class in computers," the computerphobic may say next. A class really isn't necessary, but it helps, to

be sure. A company called Edex, for example, makes any number of tutorial programs for various computers, and computer functions—databasing, word processing and spreadsheets. Those who purchase a personal computer new probably will receive some software with the machine and peripherals package. Among these disks likely will be a "tutorial" that explains the basics of operating that particular computer, and how to deal with associated peripheral hardware. With the computer will be an "operating system" which is comprised of disks with various programs already "written" on them. Some of these programs will allow the user—you—to create files, organize files, create documents, create databases, and so forth, and to perform all of the word processing functions. If your new computer has "graphics" capability, the software will show you how to draw pictures on the monitor screen and transpose them to paper via the printer. This can be everything from likenesses of Mickey Mouse to a bar chart of stock market gains and losses.

Other specialized software, available both from the original equipment manufacturer (OEM), and from companies that deal only in aftermarket software, do specific specialized jobs. There are more sophisticated business programs, programs for the futures and gold markets, programs for organizing and keeping household records and budgeting, and programs for video games that can be played on computers. There is even a chess program that plays on nine levels, teaches openings, mid-game tactics, and end-game strategies, and offers a choice of 107 replays of championship matches played by grand masters. All of this is on a 5-inch disk.

There are programs for horse breeding and chicken feeding. There is a software program available that takes the calculations work out of sophisticated ballistics. Cartridge in, trajectory out, to paraphrase a bit of computerese. A program exists that can lay out magazine pages such as these, depicting photographs in various aspect ratios, and when the layout program is finalized, be "run" through a typesetting computer exactly in page format. A computer does your bank statement.

Computers are capable of special applications. For these, it's necessary to learn basic programming so the computer will understand what it is you wish it to do, then execute your program without a hitch.

That programs of needs be written in computer lingo may be another mental block that leads to computerphobia. Overcoming this is as easy as reading a book. Bookstores are full of books on: (1) how to program specific computers, i.e., Atari, Commodore, Apple, IBM, NCR, TRS and Epson, to cite just a few, and (2) special applications programs for specific com-

puter brands and models, such as Apple, Apple II, Apple IIc, Apple IIe, Apple III, and Macintosh, for example. A program for an IBM will not "run" in an Apple, say, or vice versa, but where there's a program for the Apple, there's possibly a way to run it in an IBM—or other computer. Some brands of computers, namely the ripoffs of Apple and IBM from Taiwan or Hong Kong, can use the software of the computers that they counterfeit.

Or, an Apple IIe computer can be altered to accept and run IBM software, along with the huge Apple software library available. The cost is under \$150 for a "card" to slip into a "slot" in the basic computer so that the computer can "read" and "write" in the language of the new system. The means for doing this are complex electronically, but the results are simple: the computer's software usefulness is doubled.

Survival?—As this article is appearing in a survival magazine, of what interest is a computer to a survivalist? Apart from everyday use of the computer in home or small business organization and problem solving, there are computer functions that can be directly related to the business of survival.

For example, TAB Books, Inc., of Blue Ridge Summit, Pennsylvania, recently published a series of books titled *1001 Things to Do With Your Apple*, or *Your Macintosh*, or *Your Commodore 64*, or *Your IBM PC* or *Your TRS-80*. These five books are different only in that they have been edited to correspond with the particular input/output/programming. ▶



Sargon III is a program that plays chess at nine levels, and replays the championship games of the past century. Here a reasonable beginner's opening is shown—the start of the battle in logic.

COMPUTERPHOBIA

Though this book is one of hundreds of computer texts on the market that provide instruction for specific computers, a run through of its contents will show you what a computer can do in terms of survival uses. The *1001 Things* handbook supplies information and programming details for general scientific, educational, mathematical and technical applications. For the survivalist, the book offers programs that will forecast the weather, control security systems in the house and in the field, turn off lights and other electricals, then turn 'em on again, provide means for communications links between individuals and groups, and show the way for investments that are a hedge against economic disaster.

'Programs will forecast the weather and control security systems.'

Getting Started—There's no time like the present to start in microcomputing. Your phone bill, your gas bill, the light bill, junkmail, banking, credit cards, supermarket checkout, department store buying, and the Internal Revenue Service, to cite just a few applications, are all computerized to the teeth. One reason for understanding computers is to be able to deal more effectively with computerized businesses' mistakes.

Whether a U.S. citizen likes it or not, he or she is in the midst of a computerized world. The computerphobic will be left behind quickly.

The best remedy for overcoming computerphobia is for the computerphobic to leap right into computers and computing.

Where to Start?—Do not, repeat, do not, after reading this article, rush right out and buy a personal computer. Take your time. The local magazine rack offers several magazines and buyers' guides on computers and computing. Look these over, then buy one or two that appear to be at your level of starting out. Five bucks spent now can save \$5,000 in grief later. Take the magazines home and read 'em from cover to cover, then fill in the "bingo cards"—if you aren't worried about getting on someone's list. The bingo cards, usually bound-in with the magazine pages, offer a quick way to obtain information on computers and software that may interest you. Just "Circle The Number" and fill in your address, then drop the postage-paid card in the mail, and the magazine does the rest. It's guaranteed that your mailbox will never again be empty.

If mailing bingo cards isn't your style, head for the public library to read books and magazines on computers and computing. You can learn enough about hardware

and software to begin to make a correct decision.

Now it's time to visit a computer store to get a feel for computers and computer prices, packages and peripherals, along with the vast array of software that is available.

Do not, repeat, do not purchase a computer on this first visit. It's easy to become overwhelmed by the sheer volume of words and information provided by the salesman in the store. Do not allow a salesman to lead you into making, what, for you, may be a bad buy, or at the very least a faulty decision. Just hang out in the store—or better still, stores—and fiddle with the keyboards, look at the monitors, sample the output of the printers, and see which equipment does what with a degree of desired quality. Go home and think about computers once again. Perhaps re-read that basic book, or buy another magazine with articles that features one or two of the computers which now seem interesting to you. Get a yellow notepad and list the features of each computer 1, 2, 3, then compare 'em. Can't hurt. Doesn't cost anything.

Meantime list the things that you want your computer to do for you: file kitchen recipes, write letters, analyze stock market quotations, teach you Spanish or French or German, organize your survival group's membership roster, keep track of your

food storage shelf-life and rotation times, inventory what's at your retreat, log the coded location of your caches and what you have in them, monitor your perimeter alarm, calculate ballistics information for any caliber you choose, phase into survivalist computer "bulletin boards," balance your checkbook, and keep a Christmas card mailing file. Whatever.

Decide which three or four computers

IBM VS. APPLE: THE PRICES

Recent advertised prices for the Apple and IBM computer lines sold through authorized dealerships are as follows:

Manufacturer	Price*
Apple	
IIC	\$ 860
Ile	1,200
Macintosh (128K Memory)	1,400
Macintosh (512K Memory)	2,000
IBM	
PCjr (Discontinued)	1,200
PC	2,000
XT	3,000

*Some of these prices reflect "deals" in which the price applies only when peripherals, such as a printer, are purchased simultaneously. The Apple IIC price includes some peripherals—a monitor, stand and mouse

SOFTWARE/SERVICES: A SAMPLER

Company	Product/Service
Edex Corporation 1885 Lundy Ave., Dept. ASG San Jose, CA 95131 Phone: (408) 263-0430	Tutorial software for IBM and Apple, and various business applications.
Weekly Reader Family Software Division of Xerox Education Publications 245 Long Hill Road, Dept. ASG Middletown, CT 06457 Phone: 347-7251	Tutorial software for children, instructing in math concepts, word recognition, computer skills, and typing.
NRI School of Electronics 3939 Wisconsin Ave., N.W., Dept. ASG Washington, DC 20016 Phone: (202) 244-1600	Correspondence courses in computers and microprocessors, robotics, data communications, and digital electronics.
Living Videotext, Inc. 2432 Charleston Road, Dept. ASG Mountain View, CA 94043 Phone: (415) 964-6300	Software for planning, organizing, strategies and tactics.
Steve Wilson Dow Jones & Company, Inc. P.O. Box 300, Dept. ASG Princeton, NJ 08540 Phone: (800) 257-5114, toll free. (609) 452-1511, in New Jersey.	Software programs for accounting, investments, communications and finance, plus telecommunications services for rapid mail, news, economic updates, stockmarket quotations, encyclopedia reference, and movie reviews.
CompuServe Information Services P.O. Box 20212, Dept. ASG Columbus, OH 43220 Phone: (800) 848-8199, toll free. (614) 457-0802, in Ohio.	A consumer information service that supplies electronic mail, forums, manufacturers' newsletters, aviation weather data, news, sports, travel planning, banking, shopping, and recipes.

These companies will supply additional information on request, without charge. The six represented here comprise only a small percentage of the products and services available in the world of computers and computing.

on the market can handle these tasks and more—as more is always better with beginning computers.

Now here's a clue for the budget-minded: Don't head for the flashy, glossy, glitzy computer store. Rather, shop the classified section of your daily newspaper. Perhaps there'll be a listing for one or two or three or four computers that appear interesting to you. Check out your supermarket bulletin board and your throwaway mail for possible bargains. They're out there. So, check 'em out. If they're not right, don't buy. You can walk into a computer store any day and buy an all-new system, knowing that you made the effort

toward economy.

Peripherals—The base price you see advertised often may be for a computer alone, nothing else—and in a particular ad, maybe even the keyboard is an extra-cost option. *Caveat emptor!* Computers nowadays are a cutthroat business, and the competition is fierce. Examine newspaper advertising. In metropolitan areas, sometimes, all computer stores in a given geographical area will advertise competitively on the same day. This provides a great opportunity to see who's offering what at which cutthroat prices. Be sure to read the fine print. The ad may depict a full and

complete Apple IIe system, with double disk drive, monitor, and printer, but the price shown may be for just the computer alone, nothing else. This isn't to say that computer retailers are guilty of misleading advertising or "bait-and-switch" tactics. Be alert. Be Sharp. Beware of long credit deals, and discover just how much the total interest on the deal will be. A \$2,000 computer may cost you \$2,500, with interest. Do you need to pay this much for the privilege of purchase? Think it out.

Moreover, your previous intense reading of computer literature should tell you which computer companies are still in

(Continued on page 73)

Learning:

HIT THE BOOKS

Reading at several levels can aid your attack on computerphobia . . .

IN THE COMPUTER world, there is a wide variety of books on every aspect of computing. Subject matter ranges from basic explanations of specific computers to esoteric programming to the "philosophy" and "soul" of computers. And there's a book to cover everything else in between. Examples of this broad spectrum of information are three books, as follows:



The *1001 Things* book offers basic programs for security and weather forecasting.

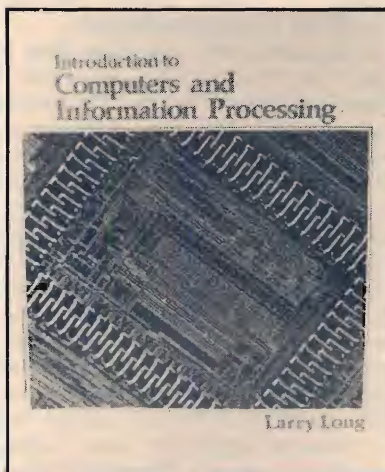
- *1001 Things to Do With Your Apple*, by Mark R. Sawusch and Tan A. Summers, Tab Books, Dept. ASG, Blue Ridge Summit, PA 17214; 256 pages, 30 illustrations; \$15.95, in large format, hardbound; \$9.65, in paperback, and \$26.50, for a book and tutorial disk combination.

This is a basic idea book published for Apple, and also for Macintosh, Commodore 64, IBM PC, and Tandy Corporation (Radio Shack) TRS-80 computers. It is a collection of practical programs for accomplishing a variety of functions. Applications range from household (or survival group) records keeping to investment analysis and business management to flowcharts and computer graphics diagrams, complete with step-by-step instructions for writing each specific program within the given

computer's operating system.

Program listings also include those for survival applications such as weather forecasting, and security alarm operations.

1001 Things makes good reading—and good computing—when the computer owner has wrung dry the manufacturer's tutorial programs supplied with the computer.



This is a basic text that explains the history, uses, and future of computers.

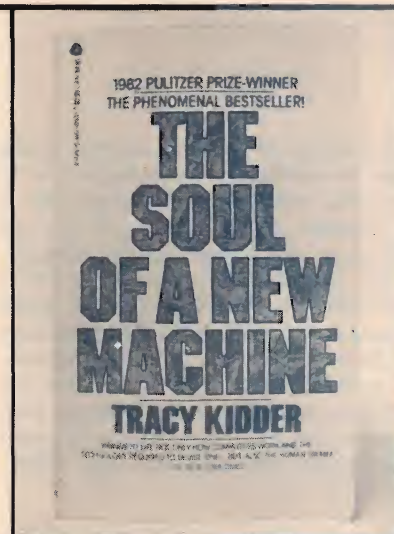
- *Introduction to Computers and Information Processing*, by Larry Long, Prentice-Hall, Inc., Dept. ASG, Englewood Cliffs, NJ 07632; 570 pages, profusely illustrated, numerous "sidebars"; \$25, paperback; an accompanying study guide is available.

Larry Long's text, in itself, if read with an open mind, can overcome one's computerphobia. The book describes where computers have come from, their status now, and where, in all probability, they are going. Hardware, software, and systems are described in detail.

The book explains computer languages, and how zeros and 1s become letters, numbers, mathematical formulas, and graphics on the computer video display terminal. Long reviews input/output, storage methods and the organization capability of computers. And, he provides a primer on computer programming.

A glossary of "computerese" can give the beginner the feeling of knowing his way around in the computer arena.

This book, read and digested, can go a long way to beat back one's aversion to computers.



This novel depicts a computer development team in action—the soul of computers.

- *The Soul of a New Machine*, by Tracy Kidder, Avon Books, 1790 Broadway, Dept. ASG, New York, NY 10019; 298 pages; \$4.95, paperback.

Here is the philosophy of computers and computing. The author of this work of fiction puts together a team of diverse human engineers, designers and marketing people, then sets a deadline for development and production of an all-new computer that will be able to out-compete the most recent computer built by a rival manufacturer.

The team struggles with development "bugs," and design questions, with program errors and faulty management decisions, trying to avoid a "kluge," while also trying to stay clear of cost overruns and burnout from job stress.

Does the team succeed? Will the new "Eagle" computer come to fruition? Will the team members individually and collectively go bonkers? Will the company profit? Or will the company go bust? You'll have to read this book to find out.

Here is the human element not often found in computer literature. He who relates to these fictional hard-pressed human characters doing battle in a chip circuit world has gone a long way toward overcoming computerphobia.

There they are, three books at different levels of computer experience. They provide a fairly clear overview of the computer material, but these three books comprise just a taste of what's available. ●

ASIAN MARTIAL ARTS

When choosing a school, look for the dedicated 'Bujutsu' instructor . . .

By Robert S. McKay

In the previous two installments of this series, an attempt was made to provide the survivalist with a basic understanding of the histories, philosophies, principles and techniques that characterize Kung-fu, Karate, Tae Kwon Do, and a variety of other Asian fighting arts. For the reader altogether unfamiliar with the terminology and foundations of the Asian fighting arts, the author humbly suggests the first two articles be read first, because length limitations will make it impossible to do much review in this present piece.—R.S. McK.

IN THE FIRST installment of this series focusing on Chinese martial art systems, it was stated that, so far as *application* of the various methods is concerned, there exist three basic categories: those systems designed *exclusively* for combat, those designed primarily for health and spiritual development, and those designed for performance or sport. In the second installment, dealing with Okinawan, Japanese, and Korean fighting, a like sort of delineation of purpose was presented in somewhat different terms: for the Okinawans and Japanese, there are the strictly combat arts or "bujutsu," and the martial paths or lifestyles, called "budo," which include systems intended primarily for

health, spiritual development, and sport performance. It can be seen, then, that a striking theme runs through the various Asian arts, transcending both time and distance: the opposition of those systems designed for mortal combat and those designed for personal enrichment.

At the same time, opposition does not imply that "budo" styles are worse or better than "bujutsu" styles. The meaning is simply that they are different and mutually exclusive. As the great scholar and Master Donn Draeger put it, "From the practical point of view, philosophy is useless." Philosophical arts are highly speculative and mental, whereas the simple reality of combat calls for a reactive, non-mental conditioning regimen. The first must emphasize *form* of movement over *function*, because the performance of the moves themselves is the focus of the practitioner. In real combat, however, *function* supercedes *form*, because *survival is paramount*. Therefore, one cannot really train for both benefits, as Draeger continues to point out: "Not all of these systems of sparring and grappling are genuine fighting arts, in spite of claims made to that distinction. For example, in Southeast Asia, where many hundreds of different hand-to-hand systems are actively practiced, some Chinese experts

estimate that fewer than one dozen of the Chinese systems are truly fighting arts. A Chinese hand-to-hand system can have only one of the following primary purposes: (1) combat, (2) the promotion of health, (3) theatrical performance. *It is axiomatic that these totally different purposes cannot be combined in any way within one system if, at the same time, that system is to retain its optimum combative integrity of purpose.*"

Survivalist Perspective—While there are certainly many rewards obtained by the practice of "budo" arts that emphasize meditation, healthful exercise, or sport competition, it is more likely that the survivalist will find self-defense or "bujutsu" arts more relevant to the "survivalist perspective." Because there is really no "one-size-fits-all" system that transcends the "budo-bujutsu" dichotomy, the individual who is interested in serious combat training would be advised to select a "bujutsu"-oriented school which will provide the maximum benefit for the amount of effort expended. The problem is, a true combat martial arts school can be difficult to find.

As was shown in the second article of this series, the vast majority of schools in both Asia and America are devoted to "budo," even if their advocates claim



LEFT — Street attire should be worn when practicing street disarms.

RIGHT — Video tapes, free sparring and sport are not combat art. Most effective techniques, eye gouges, groin strikes, kicks, and blows to the back or throat preclude games attitude.



otherwise. For this reason, it is generally easy for the person looking for "budo"-oriented schols to find them. The Yellow Pages are crammed full of systems that emphasize health, tournament sport competition, board breaking, chi development, and Ch'an or Zen meditational methods. Regardless of what an instructor from such a school might claim, one cannot expect to find a Master of combat, meditation, weapons, sport competition, or breaking anymore than one is likely to come across a shooting instructor who is a champion in bullseye, silhouette, PPC, IPSC, skeet, and high-power rifle match competition. One must *concentrate* in a particular aspect of martial arts, if true proficiency is to be developed, and for combat application, *only* a "bujutsu" school will do.

Under the assumption that the average survivalist is primarily interested in "bujutsu" or combat-oriented training, how does one then go about selecting and evaluating such schools? As stated earlier, *most* schools are of the "budo" variety, and simply calling an instructor on the phone to ask if he teaches "realistic self-defense" will be of little value. Through either greed or ignorance or both, most instructors and practitioners will contend that his system is the *best* available method of self-defense, regardless of what the system was intended for originally. So, how does the survivalist separate wheat from chaff? What should he or she expect to find in an authentic "bujutsu" school? What should it cost? What belt rank denotes proficiency? Too old or out of shape?

Combat—What to look for? Where to find it? Before you begin looking at schools, look at yourself. Take stock of your own limitations and advantages in a realistic manner. Are you in reasonably fit physical condition? Do you have injuries (bad knees) or illnesses (asthma) that will retard or inhibit your practice? While age may not be a prohibitive factor, years of a sedentary existence cannot be overcome by a few weeks of martial art training, especially in combat-oriented systems that can be very rigorous. At the same time,

specific physical limitations such as bad knees will make kick-oriented styles difficult to perform, just as a chronic problem back will make throw- and grappling-oriented systems dangerous to practice, because one must be thrown oneself in order to learn throwing. If you are simply out of shape, take some basic exercise or weight training classes at a gym or health club *before* enrolling in a martial art school. You will progress faster in combat training when you are already in good shape, and you will be less likely to fall behind and become discouraged. This is particularly important if you are middle-aged or older, because most of your fellow students likely will be young, athletic males and females in the peak of health who will otherwise be hard to keep up with. In addition, most martial arts instructors are *not* experts in physical education or medicine, and may put you through types of training which are detrimental to your well-being. If in doubt, consult your physician before engaging in any truly strenuous training.

One of the chief differences between "budo" and "bujutsu" training is explained by Draeger: "Systems of sparring and grappling that are primarily performed in order to promote health are conducted in a way that will not overtax the trainee. These systems regard anything that tends to injure or strain the body as detrimental to their purpose, and religiously refrain from using the most drastic training methods of the fighting arts. Because their purpose is to promote health, training methods must be softened and consequently the exponents so trained are not fully effective in combat."

You can expect, then, that true combat training will be "drastic" in methodology, and therefore quite strenuous. True "bujutsu" training attempts to harden your body and your resolve, providing a strong, reflexive ability to respond to attack without recourse to thinking. In fact, it is much like Army basic training: drill, drill, then drill some more. You won't have to be Arnold Schwarzenegger to study combat martial arts, but you certainly need to be in shape. Conditioning is the key to effective learning.

Sport Sparring—While the differences between sport fighting and realistic self-defense has been reviewed at some length in past articles, a few words are in order here about "full-contact" sparring. In America, *many* instructors emphasize contact sparring, with the use of protective equipment, as the best training for actual combat. While it is true that full-contact sparring practitioners *may* be able to learn to defend themselves through the medium of competition, it is clearly *not the best* way to attain proficiency in self-defense. Americans would rather compete than drill, but drilling in lethal and deadly techniques is far removed from the use of non-lethal blows and kicks in a competitive "game," where the losers don't die or end up maimed for life. In fact, the basic techniques of a combat-oriented school are illegal in competition sparring *because someone might get killed!* Almost *all* of the most effective combat techniques are forbidden in competition sparring: gouges, strikes to the throat, kicks to the legs, groin smashes, ripping out hair or ears, attacking by surprise, using weapons, kicking an opponent while down, etc.

In mortal combat, there are no rules, no second-place trophies. The psychology and tactical considerations of sport are altogether different from those of combat. In addition, the sport fighter trains for long-term endurance. In actual combat, an encounter will be over in seconds, making short-term "explosiveness" more valuable than endurance. Without belaboring this point, suffice it to say that sport and combat training methods contradict each other, and are mutually exclusive. Do not be misled by possibly well-meaning but mistaken instructors who contend that sparring is the "true test" of combat: *No game of any sort* can be said to simulate actual combat. In order to "win" such a game, one must adopt habits that may prove fatal in a real fight.

Avoid sport- or sparring-oriented schools. Period.

Weapons Training—Are traditional weapons obsolete? Almost all of the Asian fighting arts include weapons training as an extension of hand-to-hand. In Japan, ►



LEFT — Many bujutsu systems offer relatively workable techniques for defense against attack weapons. Here an elbow-up parry is from both Chinese and Korean systems.

RIGHT — An instructor practices knockout punching. The look on his face shows combat training is intense, not gentle or soft.



MARTIAL ARTS

each specific weapon was taught as a system in its own right. In the modern world, however, is the survivalist wasting his time by endeavoring to learn such weapons usage?

Yes and no. While most traditional weapons are either impractical to carry or inefficient to use in modern times, there are some "old standbys," such as the knife and stick, which are still in use today. It is almost impossible to find a school which teaches firearms as most of the Asian arts were devised before guns were prevalent, and most martial arts instructors ignore them completely. If you do happen across a school that incorporates firearms training into its regimen, you probably need look no further for relatively effective self-defense instruction.

On the other hand, Chinese and Japanese schools which emphasize or incorporate halberds, broadswords, nunchakus, three-sectioned staff, and other ornate, outmoded weapons in training are generally a waste of time for the seeker of combat technique. One may pick up a few principles that can be extrapolated into the realm of modern weapons. For example, training with the staff and canes or walking sticks could prove useful. However, the amount of time required usually is not worth the benefits received. In ancient China and Japan, concealing weapons was of minor importance, and it is easy to see that most traditional weaponry is simply too cumbersome for modern use. Even on the survival retreat, one would be a fool to lug around double broadswords instead of a rifle.

It is possible that you will locate an effective "bujutsu" system with effective hand-to-hand training which also incorporates traditional weapons. Because most schools teach weapons to only the senior-most students, you can concentrate on learning what is of value and skip weapons training altogether, if the instructor will allow it. If not, you can always quit after learning what you need, instead of devot-

ing your precious time to weapons you'll never use.

Regardless of whether the system you're evaluating includes weapons training or not, it *must* include methods of weapons disarming which work against handguns, knives, and bludgeons. Because the author has covered this in some detail in a previous article, little else will be said about this subject. This is an area sadly overlooked or ignored in most schools, so be sure to discover whether such techniques are taught and, if so, how effective they may be. If you have doubts, rehearse just one and try it out on a willing friend if possible, to see if it works for you. Remember that a tricky maneuver may work for the instructor out on the practice mats, but he's probably been at it for 10 or 20 years. The same method, in your hands, may be so difficult to apply that it turns to clumsy failure before your very eyes. Examining methods of disarming is one of the best ways to evaluate the "needless complexity" factor of a given system. The simpler the moves, the better off you'll be, because there will be less to remember and less room for misapplication on your part. Complex sequences of technique are best left for the choreographed chop-socky films. True combat is painfully simple. And simply deadly!

Facilities/Equipment—Just like the combat pistol enthusiasts, novice martial artists can get sucked into "hardware displays." The school may feature expensive equipment: video tape machines, walls of mirror, cushy mats, saunas, locker rooms, and so on. In America, the "consumerist" mentality runs deep, hence it is often easy to equate equipment with expertise. Don't. The equipment doesn't do the eventual fighting. You do!

Some of the very best combat-oriented teachers are likely to teach in garages, basements, or through local junior colleges or community organizations. Why? Because they refuse to prostitute or

"taper" their hard, grueling training methods to accommodate the whims of the buying public. They reject the "one-size-fits-all" hypothesis, and this naturally restricts the number of students they will attract. In addition, the tough workouts lead to a high drop-out rate, which makes financial solvency difficult and high operating overhead impossible. Such people will often teach only at night, or on weekends, because they have day jobs upon which they depend for income. For this reason, they are unlikely to do a great deal of advertising, demonstrating, or recruiting. They generally keep a rather "low profile." Because they do not depend upon teaching as a livelihood, they are often very selective about whom they choose to teach. If you come in looking for Ninjas or Bruce Lee stories, you may very well be refused admission to this sort of master's school because of your romantic notions about fighting. Teaching beginners is, to be frank, a pain. If a combat instructor knows you'll be dropping out in six weeks, he probably won't accept you. You'd just be wasting each other's time.

It is not uncommon to find such instruction at some of today's health clubs, where such an instructor can come in to teach without worrying about overhead and equipment, giving the club owner a portion of the dues charged the student. Possibly he will teach in a garage or a basement somewhere, further reducing overhead, a saving in cost that is usually passed on to the student through low dues. In addition, instructors who avoid "store-front" training halls are also less likely to require contracts, which may range anywhere from 3 months to 3 years in some commercial schools. Speaking personally, some of the *very best* instruction this author has received took place in dank, dark, cramped basements and garages, with a limited amount of equipment and at a monthly rate that was easily manageable —\$25.

Unfortunately, most people who teach



LEFT—Classic weapons such as the nunchaku are of little real value in modern self-defense, though they remain the darling of "dojo punks" who identify with movie idols.



RIGHT—Kata, or forms practice, is particularly effective in learning to apply combinations against multiple attackers.

commercially tend to have one paramount concern: cash flow. While this does not mean they provide poor instruction, it does tend to indicate that they will probably go to great lengths to lure in new students, as well as to prevent old ones from leaving. They will often make fantastic advertising claims—"Learn self-defense, confidence building, sport karate, yoga, kickboxing, meditation," etc.—or perform flashy demonstrations at tournaments or community fairs. They may "string out" their training regimen to keep students from reaching proficiency levels or black belt status, so that the student will continue to train at the school and pay dues. Contracts will be used to keep new students from quitting when, at a later date they find the system or instruction unsuitable. Flashy equipment and dressing facilities may be included to justify the high cost to the student in monthly dues. In addition, instructors may require that senior students spend much of their time teaching novices or group classes, allegedly as a means of preparing them to become instructors themselves one day. Novices, on the other hand, are often responsible for cleaning up the school, fixing equipment, and other similar duties. While this is a carryover from the old Master-Pupil relationship created in China, there is one difference: in China, the student exchanged work and devotion for instruction, but *wasn't* paying the instructor hard cash as well. Modern schools organized along such lines are not an especially appropriate place for the survivalist with limited time and bank account. Avoid them.

A good heavy punching and kicking

bag, some focus gloves, along with rubber or foam striking shields are quite sufficient for learning effective "bujutsu" arts. Most students spend too much time dreaming about "new" equipment when all they really need to do is spend more time practicing. While a school which features expensive equipment is not ipso facto "bad," the student must realize that such things add to the cost of overhead, and are not always useful, no matter how impressive they look. Much valuable equipment can be improvised from around the home: padded posts for hand toughening, kicking trees and walls, making heavy bags out of old duffles, and so on. So, just because that combat instructor walks into the garage with a couple of focus mitts and an air shield doesn't mean he's ill-prepared or under-equipped. Maybe his best equipment is hidden in his head!

Training Regimens—What to expect?

While there are no hard-and-fast rules in this area, a typical combat-oriented school will feature about five basic training practices, including calisthenics and stretching, individual technique honing without equipment, partner training, kata or forms, and individual technique honing with equipment. Usually, a class will begin with a formal routine of calisthenics for warm-up, along with leg stretching to facilitate kicking practice. After that, students may once again drill in basic strikes, kicks, blocks, and holds without equipment, either individually or in group drill fashion. Then, students may break up into groups to practice various combinations of techniques, as well as blocks and footwork. The instructor may then have the students perform "katas," or prerehearsed

routines simulating actual "battles" with imaginary assailants. Some of the traditional katas remain relatively practical even today, though most have been so embellished with superfluous moves over the centuries that their value is questionable. After kata practice, it is possible that the students will then work on delivery of blows against heavy bags, air shields, focus mitts, and other types of equipment. There will, of course, be no sparring because the intensity of delivery and types of strikes practiced would make such a thing too dangerous.

As previously stated, such divisions of the training regimen are only generalities, and vary in order of priority from instructor to instructor. If you are able to watch such a class in action, there are some things you may wish to look for as you evaluate its combat efficacy.

- The kata—do they appear practical? Can you actually watch the practitioner and imagine the effects of his blows on the imaginary attacker? Are the katas needlessly complex, repetitive, or acrobatic?

- Are the students working *really* hard, or just going through the motions? Are they *serious* about their training?

- Can all of the techniques be performed in street clothes, even if uniforms are worn? Are high kicks, impossible to perform in regular pants, used at all? Are shoes worn?

- When delivering blows on equipment, is there power, speed, and focus in delivery? Are the strikes direct and simple to apply?

Ranking Systems—Ranking is perhaps the most overrated and misunderstood aspects of the Asian fighting arts. Without meaning to be disrespectful, the possession of a black belt is almost completely irrele-

(Continued on page 71)



LEFT—A classic weapon that hasn't lost its utility is the stick or bludgeon. Principles learned with the Japanese Jo stick, or long staff, can be extrapolated easily to walking sticks, umbrellas, pool cues, and tire tools.

BELOW—If you are truly lucky, you'll find a school that offers combat pistol training, along with martial arts, but such an academy is rare.



Wallet-Sized:

LIFE-TOOL

*Build a fire, make tools, cut metal,
find direction, and much more . . .*

Staff Evaluation

THE ALLISON Forge Corporation of Brookline, Massachusetts, has been manufacturing and selling the Life-Tool Survival System for 12 years, but most of these have been exported to Japan, where they have proven popular with Japanese sportsmen and outdoor enthusiasts.

The Life-Tool is not that well known in this country.

Described as a "unique survival implement" the size of a standard credit card, the tool is a 3 5/8- by 2 3/8- by 1/16-inch piece of stainless steel, hardened to 56 on the Rockwell C Scale. The entire edge and etchings system, including Life-Tool, "survival manual," Fresnel burning lens with

instruction sheet and vinyl carrying case, weighs a total of 2.5 ounces, and slips easily into one's wallet.

It is a multi-purpose tool. Its uses are limited only by its owner's imagination. But among the chores it is designed for are: chiseling an emergency exit through aircraft skin; cutting open packages; striking a match; driving screws; pounding in and removing nails; opening bottles and cans; digging holes in the ground, ice or snow; stripping insulated wire; making wood chips for kindling; finding direction; signaling for help; making fishing lures and hooks; skinning animals; opening shellfish and coconuts; and cutting a

variety of metals, cloth and leathers.

The plastic burning lens is used, with direct sunlight, to start fires, an important task for survival in the wilderness.

Allison Forge also manufactures the "Butterfly" sharpening tool for keeping the Life-Tool's edges in shape. The Butterfly will easily fit in the Life-Tool vinyl case with the other items.

The Life-Tool comes with a 90 day, limited warranty.

ASG's staff was intrigued by the Life-Tool system when it arrived in the mail. A number of staff members promptly set about cutting, scraping and chiseling with the Life-Tools supplied by Allison Forge. After several tests had been performed over a three-day period, it was generally agreed that the Life-Tool system does exactly what it's maker says it can do.

When hung by a piece of thread and taken outdoors away from metal interference, the Life-Tool unerringly points toward magnetic north, proving its value as a compass.

The Edges—Although the edges on the Life-Tools sent by the manufacturer were not really sharp, a few minutes with the Butterfly sharpener made them keen. Of course, they dulled after hacking pieces of wood and cutting through sheet metal, but they were restored quickly in another session with the Butterfly.

To build a fire, staffers found that the proper kindling had to be used. The concentrated shaft of sunlight produced with the burning lens was focused on the kindling—strips of paper and cardboard, woodchips and powder from a .22 cartridge opened with the Life-Tool. Within a few seconds, smoke began to pour from the kindling around the beam of light and a small fire developed, burning the kindling. This procedure was repeated with the same results.

The Life-Tool opens cans and bottles quickly and easily, and for cutting, sawing or digging, the rectangular holes in the tool provide convenient spaces for the fingers for gripping.

The staff did not have the opportunity to test the Life-Tool for skinning animals. One staffer who has skinned several animals said he thought the process would be difficult with a Life-Tool due to its small size and relatively short cutting edge, but he added, "you could do it, sure," if the Life-Tool were the only implement available.

The Life-Tool Survival System can be purchased for \$24.95 postpaid, and the Butterfly Sharpening Tool can be purchased for \$4.95 postpaid from Allison Forge Corporation, P.O. Box 767, Dept. ASG, Brookline, MA 02146. Telephone (617) 232-8808. Send \$1 for the Allison Forge catalog of survival equipment and precision instruments. ●



The Life-Tool Survival System comes complete with a manual, burning lens and instruction sheet, and vinyl carrying case. The Butterfly sharpener is optional.



To start a fire with the burning lens, hold it so the smooth side faces the material to be ignited and focus the sunbeam on the material until it starts to burn.



The Life-Tool points toward magnetic north when suspended by thread and held away from metals and electronic equipment.



Opening cans and bottles is a snap with this device.



A .22 cartridge can be opened with Life-Tool to make a fishing line sinker or to use the powder to start a fire.



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This .177 caliber single-shot rifle features a hardwood stock with recoil pad. Included are a Pellet Pal wrist magazine and 1,000 pellets. The rifle, pellets and Pal carry a retail value of \$225. This prize is presented by:

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105 Stonehurst Court
Northvale, NJ 07647
Telephone: (201) 767-1660



SIXTH PRIZE:

Kolaps-A-Tank

A 275-gallon water storage tank, this unit comes with 1½-inch gate valve and 8-inch nipple. The Kolaps-A-Tank, valued at \$275, can be used to transport water to retreat sites. This prize is presented by:

Domestic Water-Works
P.O. Box 809
Cave Junction, OR 97523
Telephone: (503) 592-3615



SEVENTH PRIZE:

Sea Cloud Inflatable Boat

This 2-man inflatable comes with inflating/deflating foot pump, oars, rowlocks and a gunwale safety line, plus a carrying case. The boat's retail value is \$70. This prize is presented by:

Dunlap Boat Manufacturing
2940 West Pico Boulevard
Los Angeles, CA 90006
Telephone: (800) 824-9988



EIGHTH PRIZE:

Kerosun Heater

This kerosene heating stove provides warmth and emergency cooking capability, plus sterilization of surgical instruments. Valued at \$80, this prize is presented by:

Survival, Inc.
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NINTH PRIZE:

Special Weapons Case

Fabricated from black Cordura nylon, this assault rifle case features three pockets with Velcro closures for magazines and miscellaneous gear. The retail value of this prize is \$75. The case is presented by:

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Telephone: (800) 325-3049



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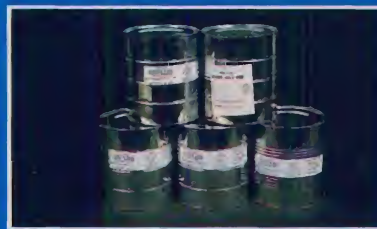
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This black Cordura nylon bag can be used for personal gear or hand weapons. It carries a retail value of \$45, and is presented as a contest prize by:

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Telephone: (800) 533-7415



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This cleaning/filet table has folding legs, blood drains and a plastic sack for discards. It has a retail value of \$20, and is presented by:

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This black Cordura pistol case is suitable for .44 Magnum revolvers or .45 ACP pistols, and like handguns. The case is valued at \$16, and is presented as a prize by:

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This black Cordura gunsack is for snubbies and smaller pistols of 2-4-inch barrel length. Carrying a retail value of \$13, it is presented as a prize by:

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406 Violet St.
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Telephone: (303) 279-0886



For the urban survivalist, the Panzer II could be a means for silent self-defense.



The optional foot claw is a measurable aid in cocking the Panzer II.

Carbine Crossbow:

PANZER II

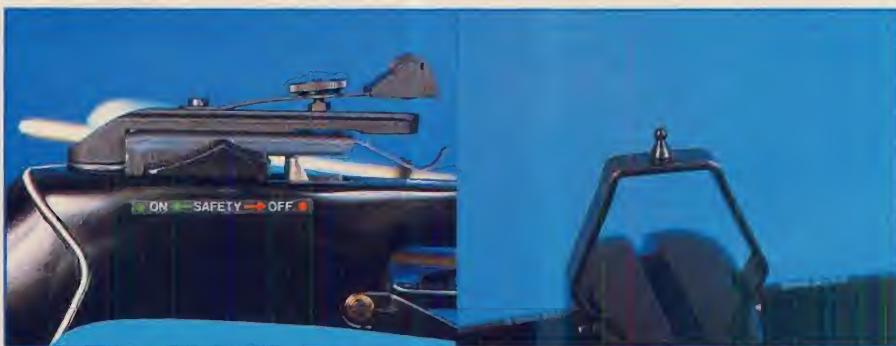
Learning to shoot this medieval siege weapon could be a survival skill of great value in the future . . .

Staff Evaluation

PHOTOS BY DAVE EPPERSON



The skeleton stock and fore-frame of the Panzer II are aluminum alloy.



Adjustable rear and bead front sights offer an excellent degree of accuracy. Safety is a push-pull trigger block at the receiver's right.

DEBATE AMONG longbowmen of compound and/or recurve persuasion and devotees of crossbows continues unabated. Each, in this boring contest, represents his own weapon of choice as strongest, lightest, most accurate and quietest, of course superior to all others. This argument is much like that of revolver fanatics vs. those ardent buffs of the semi-automatic fraternity—simply a no-win opinion exchange.

Take it from the staff of *American Survival Guide*: The Barnett International Inc., Panzer II crossbow is very strong, exceptionally light, accurate to a great degree, and quite silent. It does not reflect the simplicity of the recurve, or the ease of draw of the compound, or the pinpoint accuracy of an Olympic counterbalanced competition bow, but it is a deadly effective weapon over 20 meters, and a probable game killer up to 60 meters and slightly more.

Being primarily firearms-oriented people, *ASG* staffers came to characterize the Panzer II as "carbine sized," or the "carbine crossbow." As compared with other full-sized crossbows, some of them with compound bows, the Panzer II is somewhat smaller, but definitely not a plaything or a miniature by any standards. *Compact* is an apt word to describe the Panzer II.

Putting It Together—The basic Panzer II is packaged disassembled in protective styrofoam—fiberglass bow, aluminum stock/frame, two bolts and a crossbow string. Accessories such as additional bolts, the locking stirrup (foot claw), pistol grip, spare strings, and crossbow quivers are bagged or blister packed for pegboard display.

Getting it together requires the prod (bow) to be fitted to, and centered in, the fore-end of the stock/frame. The prod is

secured in place by a steel and neoprene-padded wedge which is locked down firmly—but not too firmly as damage to the bow can result—with an Allen-head machine screw, using the wrench supplied with the Panzer II. The optional foot claw (stirrup) for holding the crossbow down firmly while drawing its bowstring to full cock is held to the fore-end of the frame with two Allen-head machine screws. The front sight arch with its bead-post on top is secured with two slotted flathead machine screws. The accessory pistol grip that replaces the skeleton stock also is an Allen-head machine screw bolt-on. The crossbow quiver and bolt shaft supports are held in place with four slot-head machine screws.

After the prod is cinched in place, it must be strung. That is, the 150-pounds draw bow must be bent to a degree that permits loops at either end of the bowstring to engage the nocks at the prod's ends. The approved method is to put one

end loop of the bowstring over one nock, then to brace one end of the bow against a foot, bending one limb of the prod downward against the ground while at the same time flexing the other limb inward to receive the free loop of the bowstring.

ASG's pistol shooters discovered that stringing a 150-pound crossbow prod, even with factory instructions in hand, is more difficult than feeding .45 ACP cartridges into box magazines. Before the trick was mastered, several sets of standout neck veins and reddened faces were apparent among the staff.

Some History—Riding in the duty pickup truck, the staff discussed what they know and what they had read in weapons histories about crossbows. Their learned findings were as follows:

Crossbows of rather large size were evolved as medieval siege engines. These weapons required a crew of three or four and a half-day to load them. Bows were of wood, sometimes laminated. Bowstrings were of twisted rawhide or gut. The bowstrings were brought to full cock to windlasses or long claw levers. The projectiles, spears or javelins with iron points, perhaps, were launched to fly over battlements and wreak havoc among defenders inside the castle keep.

Smaller, more intricate crossbows that could be cocked and their bolts loosed by one man emerged in time. At first the design was used primarily by infantrymen as the crossbow required little training. Skilled longbowmen remained as medieval snipers of sorts. Later, as their accuracy and range improved, crossbowmen were used against longbowmen positioned atop castle walls. For a time, longbows remained the crossbows' equal, because, in the hands of a trained bowman, they were the more accurate weapon. The crossbows, however, held the advantage of superior range for heavier, more damaging projectiles. Then the crossbow took the lead briefly, superceding the less-powerful longbow, as a sure penetrator of forged steel plate and chain mail armor. Soon afterward—as a result of crossbow development, together with the advent of gunpowder in Europe—body armor disappeared from battlefields. The firearm, first the matchlock hand cannon, replaced the crossbow by reason of its demonstrated superiority. The crossbow quickly became an anachronism.

Occasionally, the crossbow reappears in motion pictures as a weapon of stealth combined with exceptional accuracy. It remains a weapon of myth and mystery, given larger-than-life powers by novelists and screenwriters. *American Survival Guide's* crew was eager to sort fact from fiction.

Materials—The modern-day Barnett crossbow is not fashioned of bone, gut, horn, yew wood, rawhide and iron, as was its medieval progenitor. The Panzer II is

fabricated of 20th Century materials: the skeleton stock/frame is cast from rigid aluminum alloy. The prod is fiberglass, bonded with synthetic resin. The fore-end grip is impact-resistant nylon, as is the heel plate of the stock pistol grip. The stock buttpad is neoprene. The bowstring is fashioned of dacron, wrapped with nylon.

The Panzer II's trigger mechanism comprises a stainless steel bowstring sear, and a stamped-steel trigger sear. The crossbow's trigger mechanics are simple and straightforward. The bowstring is drawn rearward to engage the bowstring sear. The string forces the spring-loaded sear downward and to the rear as it passes along the frame. When the string is to the rear of the sear, it flips upward and forward to engage the string.

With the string cocked against the sear, a bolt (arrow) can be fitted to the crossbow. One of the bolt's three vinyl "feathers" is inserted in groove in the Panzer II's upper fore-end, and the bolt shaft is then pushed rearward until its rearmost end is firmly against the cocked bowstring.

Now the Panzer II is ready to launch its bolt with high velocity and silence. A squeeze on the trigger draws the trigger sear down, causing the bowstring sear to break free and rotate forward, loosing the bowstring and bolt. As soon as bowstring tension is released, the bowstring sear, under spring pressure, returns to position for re-cocking the crossbow.

The Panzer II is equipped with a simple trigger-block safety.

Cocking—ASG's resident bowhunter, familiar with exotic compound equipment, volunteered to cock the Panzer II.

Barnett offers two approved methods for completing the task. One is to hold the crossbow's buttstock against one's stomach, place the hands evenly on the bowstring, and then draw the string rearward until it is caught by the sear. The other is to place a foot in the accessory stirrup, bend from the waist, grasp the string evenly, then execute a sort of clean-and-jerk to nock the string in the sear. The belly pull method is really tough. The foot-claw technique is less difficult, much more sure, and requires less effort because the crossbow-cocker's large back and thigh muscles can be brought into play to flex that 150-pound-draw prod. The effect and technique required are much like those for picking up a 150-pound barbell. Among its vast array of accessories offered for the Panzer II, Barnett International lists a "Goat's Foot Cocking Lever" that can be used when the crossbowman is sitting down in a tree stand

The Shoot—The first time ASG staffers cocked the Panzer II, the weapon was in the magazine's editorial offices. This was a mistake, as dry-firing a crossbow is a no-no because a broken or damaged bowstring may result.

BARNETT PANZER II: TECH SPECS

Prod material	fiberglass
Stock/frame material	cast aluminum alloy
Draw, pounds/inches	150/9
Trigger pull, pounds	0.94
Weights:	
With quiver and foot claw, pounds	6.09
With 7 bolts added to the above, pounds	6.47
Bolts, each, ounces	1.10
Dimensions:	
Prod length, inches	27.00
Overall length, inches	33.13
With foot claw retracted, inches	30.25
Bolt material:	
Point	steel
Shaft	aluminum
Fletching	vinyl
Bowstring material:	
String	dacron
Serving/whipping	nylon
Sights:	
Front	bead on post
Rear	elevation/windage adjustable square notch
Sight radius, inches	11.32
Prices, suggested retail:	
Panzer II	\$250
Pistol grip	\$36.50
Bolts (No. 17F), package of 5	\$22.40
Crossbow quiver and six bolts (No. XQ6)	\$39.80
Replacement strings, each	\$5.10

Manufacturer Barnett International, Inc.
 Dock Meadows Drive
 Lanesfield, Wolverhampton
 West Midlands, England

Supplier Barnett International, Inc.
 P.O. Box 934
 Odessa, FL 33556
 Phone: (813) 920-2241

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PANZER II (Continued from page 57)

So, the crossbow was toted some 120 miles to the boondocks in cocked condition, on "Safe" and without a bolt fitted.

Once the crew arrived in the outback, a bolt was inserted in the Panzer II, and the fun began.

The longbowman was first up: Shooting off-hand from a standing position, he took aim at a 1-foot-square Leupold minute-of-angle target 10 meters distant. Sighting with the windage/elevation-adjustable notch and bead/post system, his first shot missed the phone-book-sized target entirely, the bolt flying low and to the right. The bowman fiddled with the sights momentarily, complaining that his trigger pull had brought the bolt to the right, and then cocked the crossbow and loosed a second bolt. This bolt was down 2 inches and still 1 inch to the right of center. More fiddling with windage and elevation knobs ensued. The cocking drill was completed, the bolt grooved, and the shot was let fly—to centerpunch the target dead-on.

At 10 meters, other *ASG* staffers were almost as effective as the experienced archer.

Now the target was moved out to about 40 meters. Bolts launched initially fell in front of the target by 6 to 10 feet. Up with the rear sight. The bolts were on-target again, but the spread had increased from mere inches to nearly a foot, or more. The target was reset at 60 meters or so, and the bolt drop was more pronounced. Up with the rear sight. The bolt span in the target became wider, but the target was hit, nonetheless.

The groupings were small enough to encourage *American Survival Guide* staffers to think that they could forage for food

successfully with the Panzer II.

The crossbow gave up a bowstring for every 14 to 18 twangs, so that a survivalist who is depending on the crossbow for meat on the table must either lay in a supply of commercial bowstrings, or learn how to make them in quantity.

The crossbow, *ASG* staffers believe, could be of value in some survival situations. The small sound the crossbow makes when a bolt is launched certainly is much less of a sound than, say, the noise of a .22 Long Rifle shot. For this reason, the crossbow could serve well when stealth in hunting or self-defense is a prime requirement. The crossbow may be employed by a shooter lying prone, whereas a longbowman must stand erect to use his weapon.

The staff evaluation of the Panzer II is that it can be a remarkably effective weapon over short to medium ranges. It is reasonably accurate, reasonably silent. However, all staffers agreed that the crossbow must be relegated to a secondary backup role when compared with firearms in terms of effectiveness in foraging and in self-defense. Firearms bested the crossbow in combat along about the 13th or 14th Century. When there is no gunpowder, the crossbow is the weapon.

With purchase of the Barnett bow, the owner receives an application for membership in the National Crossbow Hunter's Association, Inc., of Jeromesville, Ohio, which sponsors tournaments. Be aware, however, that in some states hunting with a crossbow is illegal.

Owning and learning to shoot a crossbow accurately could well be a survival skill of great value in time of future crisis. Who knows? ●

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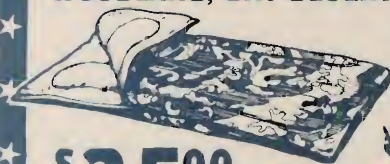
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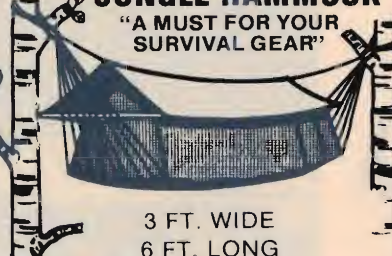


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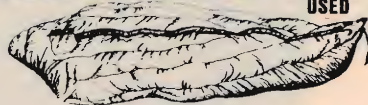
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(Continued from page 23)

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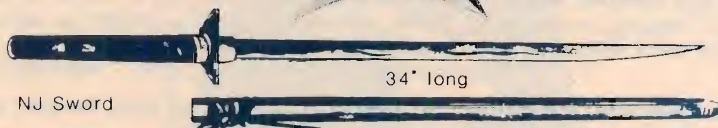
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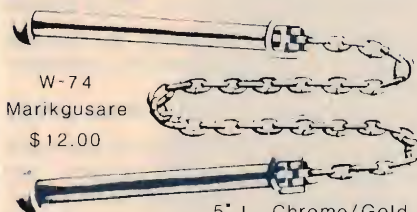
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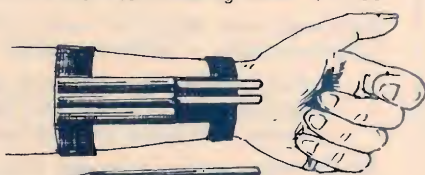
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2442 N.W. Market St.
Seattle, WA 98107

SURVIVAL STUFF

(Continued on page 61)

Survivor sling's suggested retail price is \$16.95. Suggested prices for Pocket slings range from \$19.95 to \$21.95. Send \$2 for a catalog to Pioneer Products, Inc., P.O. Box G, Dept. ASG, Magnolia, AR 71753.



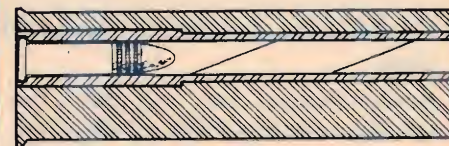
Double Padding

Tough, waterproof nylon pistol cases in either black or camouflage and featuring a new double padding for extra shock protection are produced by Schulz Industries, 16247 Minnesota Ave., Dept. ASG, Paramount, CA 90723. In these cases the outside layer of padding is a closed-cell shock resistant foam. This protects the weapon from damage if accidentally dropped. The inside layer of padding is an open-cell, air-circulating foam allowing the weapon to breathe while being fully cushioned. Suggested retail prices range from \$14 to \$18. Send \$2 for a catalog of Schulz products.



.22LR Semi-Auto

The all new Feather AT-22 .22 Long Rifle semi-automatic carbine from Advanced Technology is now available at a suggested price of \$189.95. The weapon is complete with a 20-round magazine, removable steel barrel, sighting system, sling and collapsible stock. It weighs only about 3 pounds and is precision machined from aircraft aluminum. If field strips in seconds without tools. Contact Feather Enterprises, 2500 Central Ave., Dept. ASG, Boulder, CO 80301, phone (303) 442-7021.



.22LR Shotgun Insert

New insert devices for firing .22 Long Rifle cartridges in 12-, 16- and 20-gauge shotguns are available from GTM Company. The insert device is the length of the loaded and crimped shotgun shell. It can be fired in semi-automatic, pump-action and break-open shotguns. This lightweight

adapter is made of strong aluminum alloy with a steel .22LR bore offset in it so the centerfire shotgun pin can strike the rim of the .22 cartridge. The inserts retail for \$35, postpaid, in any gauge. It is not covered by the federal Gun Control Act of 1968 and can be mailed directly to the customer. A full catalog of 400 conversions is available for \$3. Write to GTM Company, 15915B E. Main St., Dept. ASG, La Puente, CA 91744.



Korth Kometh

Beeman Precision Arms, 47 Paul Drive, Dept. ASG, San Rafael, CA 94903, now imports the prestigious line of Korth revolvers for shooters who desire the quality of handmade arms. Only a few hundred of these German-made revolvers are produced each year. But the Korth is not made only for display. It is made to go anywhere and be used in any situation. All major parts are from hammer-forged steel surface hardened to a tensile strength of between 200,000 and 210,000 PSI. The cylinder gap is only 0.002 inches wide. Several target and combat models are available in .22 LR and .357 Magnum calibers, or .22 LR/.22 Magnum, and .357 Magnum/9 MM Luger combination arrangements. Suggested retail prices range from \$1,595 to \$2,195.



Woodlanders

New from Osolo Sport of Italy is a line of field/hunting boots known as The Woodland Series. The Woodland boots include leather construction, ankle hinges, closures, an advanced cushioning system, and a sole fabricated of a compound engineered for durability. A viscoelastic polymer, Sorbothane, is placed in the heel to absorb shock of the heel strike. The plastic material flows like human flesh, while eliminating friction. Boots in the Woodland Series range in price from \$145 to \$185 per pair, suggested retail, plus \$3 shipping. Additional information is available from the U.S. distributor, Kenko International, Inc., 8141 West I-70, Frontage Road North, Dept. ASG, Arvada, CO 80002, phone (303) 425-1200. ●

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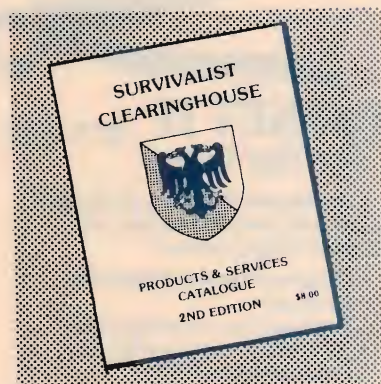


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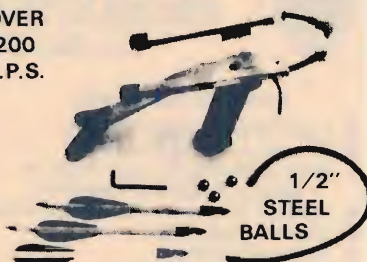
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MAIL CALL

(Continued from page 8)

though he has a big CB 13 decal on his rear window. It's hard enough to get a response on channel 9, the FCC-designated emergency channel, when there is a life or death emergency. The very nature of CB radio makes it an extremely unreliable medium for communicating.

Ira Groff
Address Withheld

Next time we crank up on Survival 7, Ira, we'll pass the word along to our CB survivalist friends. Maybe those survivalist CBers are listening, not ratchet-jawing.

Nothing But

I would like to compliment you on a great magazine. I switched from another magazine to yours about a year ago because ASG has more information in it and is not directed to the "Gung Ho" type. Thank you, and keep up the good work.

Michael J. Bresnahan
Address Withheld

Our experience is that an undue amount of Gung Ho can get a person killed. Maybe a better expression for survivalists would be "Gung Hide." He who fights and runs away, etc. . . .

Hot Load

I read the staff report on the Weaver Nighthawk (January 1985) with great interest. I am a fan of 9mm carbines as evidenced by my piece "The Long and the Short of It," that is to appear soon in *American Survival Guide*. I would have to disagree with the premise that 9mm rounds are not known for penetrating walls to any great extent. FMJ 9mm ammo fired from service pistols, SMGs or carbines has a great deal of penetration. Several years ago I conducted tests for our police department in which 9mm ammo penetrated 12½-inch sheets of plywood. That was twice as far as .357 Magnum 158-grain SP. In tests against automobiles, the penetration was far superior to any of the .38-.357 loads then available. Don't underrate the ability of 9mm ball ammo against wood, sheetrock or sheetmetal—there is much risk of overpenetrating, as long as FMJ ammo is used. Hollowpoints or softpoints dramatically reduce the problem. The "12-Volt System" piece in the same issue was great. I have been planning just such a unit and will now be pushed over the edge to get with the project. Great!

Donald M. Dineen
North Bend, Washington

For those who live in mobile homes, or multi-unit apartments, maybe the .38 or

.380 ACP is the shooter of choice. A .308 Winchester would be bad news. Thanks for the report on your 9mm ballistics testing.

Mind Tapes

In your May, 1982, issue you had an article entitled, "The Mind: Ultimate Survival Tool," by Hal Bateman. In that same issue you ran an ad for Self Hypnosis Tapes for Survivalists by Bateman from Prepare, Inc., in Scottsdale, Arizona. I sent for one of these tapes. I never received it. I wrote them three letters, no answer. I called them three times, twice I reached an answering service and the last time they were disconnected. I've given up on getting my tapes from them, but perhaps you can help. Please print this letter in your Mail Call section. If any of your readers did get the tapes from Prepare, Inc., and still have them and will get in touch with me perhaps we can work out a way to get a copy to me, i.e., I send them two blank tapes plus a few dollars, that way they get one blank to use on whatever they want, make a copy of the Bateman tape for me, and send it back to me. The tapes I need are entitled, "Resourcefulness," "Pain Control," "Stress Reduction/Relaxation," "Super Memory Recall," "Surge of Energy," "Improving Reaction Time," "Combat and Practical Shooting Improvement," and "Increase Powers of Observation/Awareness." I really need to obtain these tapes and your magazine is my last hope.

Sidney D. Evans
P.O. Box 18373
Boston, MA 02118
(617) 542-7430

Does anyone out there have the tapes? Can you help Sid Evans?

Off-Road Escape

Regarding your article, "Escape By Car" (October 1984), I will agree with you on most points except using reverse in the manner you suggest, because a lot of cars around nowadays have the gas tank right down on the bottom between the rear axle and bumper. Backing over medium to small trees could create a stump that will ruin a gas tank. Also, you have less visibility and usually less traction in reverse. I have a trailer made from the back half of a pickup (box and frame) that is handy and it's a lot easier to load and have ready than driving around all the time with whatever you're going to take when you have to run rattling around in whatever you have. Granted, towing a trailer is harder on your rig than no trailer, until you consider the

(Continued on page 66)

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20 Patties \$ 15.00 + 1.50 S&H

50 Patties \$ 28.00 + 2.50 S&H

100 Patties \$ 45.00 + 4.00 S&H

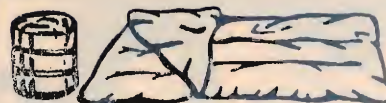
1984 MRE Fruit Bar Rations

We managed to get about 150,000 of these excellent freeze dried, individually wrapped fruit rations from the 1984 contract. Stores indefinitely—great for camping, hunting, emergency use or for everyday snack. Packages of 24 assorted bars—includes fruit mix, pear and strawberry. Each 24 represent about \$25 worth of fruit if in No. 10 cans. #M115

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NEW Israeli Civilian Gas Mask



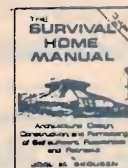
A quality mask designed for the civilian population, due to a design change it is not current issue, but all are brand new. A quality product that comes with canister for all standard gases—not NBC—including tear, mustard, etc. An inexpensive piece of protection for the family. #6476

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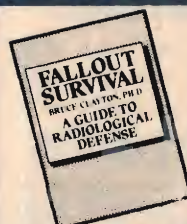
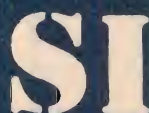
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Add \$1.00 for Postage and Handling

MAIL CALL

(Continued from page 65)

weight they'll carry. I'd rather have a car and trailer than an overloaded car. People who are worried about their ignition system being zapped by electromagnetic pulse can convert to the old style point and coil setup for most engines of the same family, if that engine was used in the early 1970s, by purchasing a used distributor, coil and ballast resistor.

Name and Address Withheld

From experience, it's a whole lot easier to plug a leaking gas tank than it is to repair a radiator core in the field. Lose that cooling system, and you lose the battle. And, reverse gear usually is a lower (higher numerically) ratio, hence is better for the down-and-dirty grunt going.

Learning

A pat on your collective backs for providing one of the few magazines covering the subject of "survivalism" that is not simply an 80-page gun review. I date myself as a "survivalist" from June 1970, at least that's when I stopped to take my first honest and objective look at my world, my country and the governments that try to run it. I learned you can't eat a \$600 rifle, and you can't shoot a two-year supply of food. You've gotta have a little of each or else you may end up feeding someone who bought a rifle and nothing else. I learned that my nation's money was and is not money at all but just unpaid debt, and that my government can't really afford to let me retire at age 65 unless I could get used to dog food and collecting aluminum cans. I saw for myself that my police department does not have any legal responsibility to protect the public from anything or anybody. I learned the hard painful way that a hospital doesn't have to admit you for "proper emergency care" unless you have cash up front. My family and I are preparing to be at least three people somebody else doesn't have to feed, protect, shelter or medicate. We plan to be no drain on what's left of society after the so-called "Big One," be it Crash, Quake, Bomb or economic bust. But for long- or short-term survival, a bit of company is a must. Give group organization a little more coverage if you can find the room.

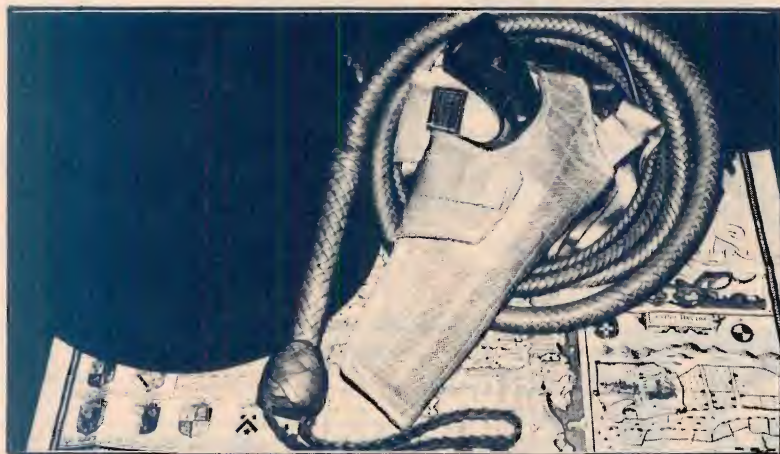
Name Withheld
Los Angeles, California

Thanks for the back pat. It appears you're ready for about any situation. About groups, we intend to start our *Survivalist Directory* in the near future. Maybe you can find some company through this service.

Survivalist Mold

I would like to compliment you on your

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fine magazine. I thoroughly enjoy the wide variety of informative articles for their range and depth. Were it not for you, I would need to wade through whole libraries before I could find what I need to know about rope knots, training of animals, camouflaged clothing, survival techniques, weapons and weapon accessories, etc. You also have an intriguing range of advertisers, marketing a very wide range of products. I am not sure if I would fit into the "survivalist mold" of some of your more dedicated readers. I own no land, and as yet have no retreat hidden away. I do not even have a family to protect. However, I am worried as to the uncertain future of this planet and intend to survive whatever happens. I know of no other survivalists in this country, and the survival scene in Australia, I think, must be a little different from that in the U.S.A. While your publication refers to a wide range of dire possibilities from attacks and or invasions by specific enemies, as well as natural disasters, here, in Australia, I am not sure what would be the situation, should the "Big Crunch" come. I am compiling a practical survival list based on the more likely strategic, political and economic possibilities and the limitations of my wallet. It is based on the priorities of water, food, shelter, security and comforts. Included in it is my collection of *American Survival Guide* magazines. May I suggest a future article? That is, "After Survival, Then What?" There has got to be more to life than just "survival."

Brent J. Kingston
Sidney, Australia

*Preparation is the way of survival, Brent.
You seem to be well on course.*

Survival Articles

I have been reading your magazine for some time and would like to see more articles on surviving natural disasters, man-made disasters and even financial crashes. There are several other so-called survival magazines on the market but there is not a single real survival article in any of them! All they are are gun magazines. The fact is that guns represent only a minute fraction of a survivalist's equipment in an emergency and a .22 or deer rifle or a 12-gauge is all that is needed. The absolutely indispensable items are food, water, medicines, shelter, compass, matches, sunglasses, clothing, boots, blankets, gold or silver coins and if the worst happens, a radiation detector or dosimeter and radio. A bow and arrow or spear would also help. Everyone should learn survival skills. Survival in the big cities should also be included in some of your survival articles. More people are

(Continued on page 68)

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MAIL CALL

(Continued from page 67)

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L. Palmer

Floriston, California

We've covered chemical spills, acid rain, earthquake, tornado, hurricane, volcano and wildfire over the past couple of years. Check your back issues. We agree that everyone should learn survival skills, else we wouldn't be producing this magazine. And, too, we share your opinion that fire-arms are just tools.

Suggestions

I appreciate your excellent writing and the contents of the magazine. I find it interesting that survival is becoming a worthy topic when we have actually been involved in that from birth . . . in spite of certain "surrender" types. Certain items have apparently been bypassed, or assumed, and which I feel should be called to proper levels of debate. The various guns described are all excellent, but it is hard to hunt rabbits with magnum loads, and most of our survival food would come from such "stew pot" hunting. How about inclusion of a simple and powerful air rifle? Travel under the conditions described in one article has the extra hazard of the water-cooled engine in the vehicles. Wouldn't it be better to use air-cooled engine vehicles such as the VW and Corvair types? Whatever survival community is under consideration, there should be windmill power available; generators, pumps, machinery drive . . . so someone should develop a cheap, simple, portable wind power design for survival. The Army had Hudson Car Company and, I think, Hercules Engine Company, back in the late 1940s, develop a multi-fuel engine of simple design and in two sizes for jeeps and 6x6s. It was also air-cooled. Whatever became of that? Most of the available literature assumes people in perfect health. What about those disabled or sick, vets included?

Gordon Coddington
Kingman, Arizona

No one around here ever says "surrender," or "give up," or "lie down." Sure it's difficult to bag rabbits with Magnum loads—and have any meat remaining. Have you read our articles on .22 caliber rifles and airguns? We've covered three powerful air rifles in the past two years. We agree that air cooled engines such as the VW and Corvair would prove effective, but these types of powerplants are now in short supply, as they've been off the general market for years. The Army—i.e., the Department of Defense budget—can afford expensive multi-fueled engines. Gordon, but most survivalists can't. And thanks for your input. ●

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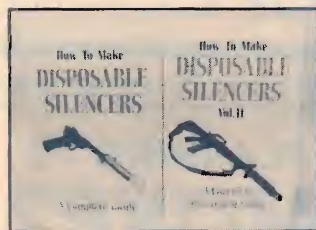
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BOOK REVIEWS

(Continued from page 12)



their service with the Shanghai police, were placed in charge of close combat training at the Commando Training Depot in Achnacarry, Scotland, in the early days of World War II. They received permission from the War Office to design a fighting knife specially for the Commandos, which would be versatile and effective for the techniques they taught. The Wilkinson Sword Company produced the first few hundred First Pattern FS stilettoes which were distributed to the Commandos in 1941. Since then, many thousands more have been made of varying design. This book, lavishly illustrated with photographs, provides a comprehensive look at the different versions and imitations.



How To Make Disposable Silencers, Volumes I and II, by J. Flores; J. Flores Publications, P.O. Box 14, Dept. ASG, Rosemead, CA 91770; Vol. I 79 pages, Vol. II 109 pages, both paperback; Vol. I \$12, postpaid; Vol. II \$14, postpaid.

A warning printed at the beginning of the books states that construction or possession of these devices without a special license is to be in violation of various federal, state and local laws. The reader is advised to check with the local federal Bureau of Alcohol, Tobacco and Firearms office for additional information. The publisher assumes no responsibility "for the use or misuse of any information" contained in the books. That being said, there may come a time when making a silencer is deemed necessary for survival. The books tell how to do that simply, in the home, with a few ordinary tools and materials such as soft drink bottle caps, automotive freeze plugs, PVC and metal pipe, plastic soft drink containers and window screen, usually at a cost of \$3 to \$7 each. Vol. I deals primarily with silencers for small caliber handguns. Vol. II offers instruction for more sophisticated silencers for larger caliber weapons. ●

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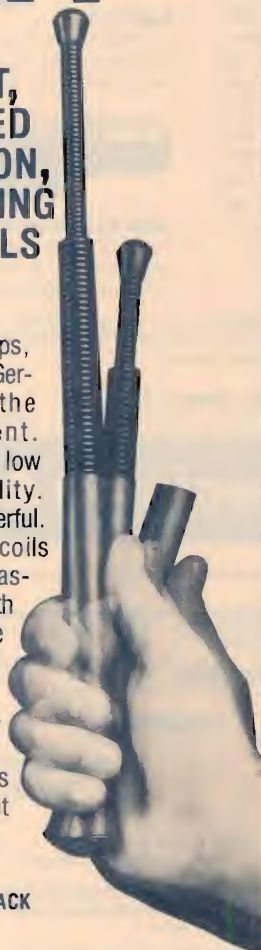
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ASIAN MARTIAL ARTS

(Continued from page 51)

vant, so far as actual fighting ability is concerned.

To begin with, let's look at the instructor's rank. If he has been ranked in a sport-oriented "budo" system, he is no more necessarily qualified to teach practical self-defense than a bullseye handgun champ is qualified to teach combat pistolcraft, although he *may be*. Contrary to popular belief, the simple possession of a black belt in some Asian system does not necessarily mean that one has great fighting or instructing ability. In most cases, it is merely an indication of the number of kata, basic techniques, and classical rituals with which a student is familiar.

Belt ranking is essentially a Japanese invention that dates back less than 100 years to the development of sport Judo in the 1800s. This system was later adopted by Okinawan Karate as well as Korean Tae Kwon Do, although each system may use a different sequence of colors between the novice, white belt beginner and the black belt instructor. In addition, there are ten "degrees" of black belt rank, as well, which is usually indicated by colored stripes on the belt itself. But there is really no way to cross reference these ranks between styles. In Tae Kwon Do, for example, it is quite possible to achieve black belt status in one year, and it is not uncommon to find Koreans who have attained the rank of 8th or 9th Degree. On the other hand, Japanese and Okinawan stylists are usually considered "Masters" upon reaching their 5th Degree, and some consider it egotistical to apply for further ranking beyond this point, since it does not follow that a 6th Degree is somehow "better" than a 5th Degree rank. In some systems, it may take at least four years to achieve a black belt, whereas a counterpart in a Korean system might achieve 5th Degree status in his system in the same length of time.

From the standpoint of actual combat expertise, ranking is *only* useful in separating the essential beginners from the relatively expert. Originally, one started with a white belt which was never washed; as time passed, the belt became black with soil from practice, eventually being formalized into the system used today. In Chinese systems, this has always been understood; belts are not used in traditional Kung-fu. Chinese systems are based on the "family" model, and one's rank is determined by one's seniority as a member of the school, *not* on one's fighting ability. Everyone within the school had a relatively clear understanding of their ability in relation to others without recourse to belts. After 15 years or so, one became a senior disciple or instructor, but not a Master. Because Kung-fu systems generally avoided sport

(Continued on next page)

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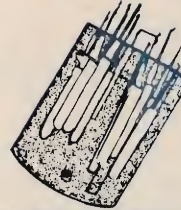
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ASIAN MARTIAL ARTS

competition until the 1950s there was simply no need for a ranking system.

Without going into minute detail, it may suffice to say that, for the survivalist who is interested in gauging his progress in a martial art school, a green or brown belt denotes a level of proficiency in the rudimentary basics of the system. This will naturally vary from place to place, but by the time you've attained such rank, you should at least have been introduced to the major blows, footwork, and defenses of a given system. It may take anywhere from six months to two years. *Practice* is the determining factor.

Breaking Techniques—While breaking boards, basalt blocks, or slabs of ice may seem impressive, it has very little to do with actual combat. While breaking can be useful for the development of *Chi* power, or for confidence building in the physically weak, these are not of paramount importance to the survivalist. As the late Bruce Lee once remarked, "I've never been attacked by a board or a brick."

You won't be either. Forget this stuff. Experts in this field have broken their fingers dozens of times, and will develop arthritis unless certain extensive precautions, such as Iron Palm training, are implemented. If you value your dexterity, leave this stuff of the big bruisers. Practical applications are almost non-existent.

School Decorum—Let's assume that you've finally found the school for which you've been looking, a school that will satisfy your "survivalist perspective" in most, if not all, ways. How do you conduct yourself?

One thing to understand is that no two instructors are necessarily alike. Some are very formal and aloof, even surly, on and off of the training floor, but this doesn't mean that they dislike you. For the instructor from the "old school," the Confucian precepts about not showing emotions is taken very seriously sometimes, even if the "Sensei" or "Sifu" thinks you have promise. This writer has had instructors who insisted on calling him "Mr. McKay" in a formal manner during class, only to see them revert to amicable personalities once they ceased playing the role of instructor. This is part of the traditional approach to discipline—keeping some distance from your students so that familiarity doesn't breed disrespect. Most will insist that you address them as "Sensei" or "Sifu" during classes. Some will insist on it even *after* classes. You may find that, once you've been around and paid some dues in sweat and effort, that this aloofness will evaporate. You must understand that most instructors do not wish to become personally involved with new students because most drop out after a

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ASIAN MARTIAL ARTS

(Continued from page 71)

few months; why should he share his hard-earned knowledge with people who haven't the determination to stick it out? In old China, a would-be student knocked on the Master's door for 1 year and plied him with presents through proxies before the Master would even consent to speak with him, much less instruct.

In addition, there may be other cultural carovers from Asia with which you must contend: You may be required to bow onto and off of the training mats, salute your training partners, and so on. In most "bujutsu" schools, however, such rituals are kept at a minimum, if they even exist at all. Here in America, many instructors are informal—you may even address them on a first name basis in some instances. In most combat schools, respect needn't be demanded; it is freely given. If you are training with a "low profile" type in a basement setting, the only rule of decorum may be "Don't Spit!" or "Please Puke Outside."

The Survivalist—It is somewhat popular these days for American martial artists to underplay the utility of the Asian fighting systems. Most have heard the joke about the bar fight wherein one antagonist yells out, "Watch it! I know Karate!" At this point his adversary smashes a stool across his head and announces proudly, "I know bar stool!" Even those who criticize the value of most of these arts for true combat must acknowledge that these conclusions were reached through study in the Asian martial arts! Originally designed for military applications, the Asian arts continue to evolve in a variety of directions. From 1900-1950, the war-weary Asians began to emphasize the development of "budo" arts to replace the "bujutsu" spirit that seemingly had caused so much warfare in this century. Here in America, however, there is a resurgence in the need for combat "bujutsu" skills to fit a new set of circumstances: violent crime rampant in our streets, and the threat of nuclear war and the chaos that may follow. If the survivalist knows what he's looking for and where he can find it, perhaps the martial arts will prove to be of great value.

Perhaps one day, the world will evolve into a place wherein the combat aspects of the martial arts will be looked upon as relics of the past. However, don't hold your breath.

For *American Survival Guide* readers who may have missed the first two installments of Robert S. McKay's series on Asian Martial Arts, the articles appeared in the April and May, 1985, issues of *ASG*. Either one or both are available at \$2.50 each, plus 50 cents per order for shipping and handling, from *American Survival Guide*, 2145 West La Palma Ave., Anaheim, CA 92801. ●

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COMPUTERPHOBIA

(Continued from page 47)

business and getting stronger, and which ones have gone belly-up in the intense competition of the computer sales arena. Take care to not buy at an exciting cheap price a fine computer system that was built by a lately defunct manufacturer. It may be a good computer now and over a year or two, but where will you get replacement parts when the machine is in need of repair?

Do not let the salesman sell you peripherals at extra cost that you will not need in the long run.

You may need only one disk drive, instead of the salesman-recommended two. You must decide. Do you really need a "mouse," a rapid controller, or will the cursors built into your software serve just as well? Do you really need "joysticks," game controllers just for funsies? If you don't plan to play games, you won't need 'em. Do you need a color monitor, or will your TV set in the living room do, or can you make do with an amber or green monochrome (single-color) screen? You must make all of these decisions intelligently to avoid buying too small or too large a computer, together with some unneeded peripheral devices. Buy what you need.

Know some "insides," as for example that Apple computers carry a dealer markup of about 20 percent over dealer cost, whereas IBM equipment has approximately a 35 percent markup schedule, so Apples will always be cheaper than IBM of corresponding power and speed, and dealers will be more than anxious to sell you an IBM, rather than an Apple. Know that the Tandy Corporation (Radio Shack) has just placed on the market a new line of computers that is compatible with IBM equipment and software, at much less initial cost.

And, in your readings, learn about "architecture:" this is the stringing together of various computer components to build a system. Basically, what you should know is that some computers feature "open" architecture that allows the system to be expanded almost infinitely, whereas "closed" architecture means, for all practical purposes, that the computer you see is what you get—and that's it. The "closed" architecture computer won't accept any software other than that produced by its manufacturer, and this software may not be compatible with any other computers. Know what you are doing when you buy a closed system. A closed computer system cannot be expanded or "accelerated."

A computer with keyboard and monitor is the basic system for the majority of functions. If you want "hard copy," type-written on paper, you must buy a printer.

There are several kinds and a wide price range of computer printers on the market—thermal printers, "letter quality"

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AD INDEX

The American Civil Defense Association	67
Arms Research Associates	63
Steve Arnold's Gun Room	71
Assault Systems	11
BMF Activator, Inc.	66
Barnett International, Inc.	C/4
Beeman Precision Arms, Inc.	69
China Diesel Imports	28
Civil Defense Surplus Sales	74
Comp-U-Tronix	62
Core Resource	73
The Cutlery Shoppe	6
The Dutchman	15
Dynamit Nobel of America	10
The Edge Co.	21
F.I.E.	29
Feather Enterprises	29
Four Seasons Survival	72
Great Lakes Distributing	38
Guaranteed Distributors	75
House of Weapons, Inc.	75
INCO	70
JS&G Marketing	60
J & T Surplus	60
Kaufman's West, Inc.	
Army & Navy Goods	39, 40, 41, 42
Keystone Security Products	75
Knifeco	C/3
L.L. Baston Co.	69
Lifeknife	73
M & M Enterprises - Survival Tools	64
M & M Enterprises - N.J. Weapons	61
Magnum Research, Inc.	9
Martin Sales International	58
Master At Arms	75
Midwest Sports Distributors	67
Neptune Fireworks Co., Inc.	71
New Desert Publications	13
Niho Land & Cattle Ltd.	62
Numrich Arms	29
Pacific Cutlery Corp.	4
Paladin Press	7
Phoenix Systems, Inc.	58
Pocket Survival	68
Provisions Unlimited	37
Pyro-Sonic Devices Co., Inc.	75
Seasonal Merchandise, Inc.	68
Ram-Line, Inc.	22, 23
Self Reliance Center	C/2, 3
Smoky Mountain Knife Works	75
Southwind Products	75
Special Weapons Products	66
Sport Acces-Ammo Dump	33
Survival, Inc.	65
Survival Books	72
The Survival Center	61
Survivalist Clearinghouse	63
Underground Shelters	75
Ultimate Survivor	12
Yellowstone Basin Properties	75

COMPUTERPHOBIA

printers, dot matrix printers, and laser printers.

A thermal printer is cheap and it produces readable copy at moderate speed. A letter quality printer is like an office typewriter without the keyboard, and can produce letters that look as though they were produced by a professional secretary with inch-long fingernails. By computer standards, though, the letter quality printer is definitely slow. A compromise is the dot-matrix printer. This device makes letters and numbers with a series of tiny dots, *very* rapidly. The laser printer produces letter quality work rapidly, but is expensive. It's necessary to choose whether you want top quality or top speed—or perhaps plan to buy two printers.

Taking It Home—Part of your initial purchase, if you buy a system package that includes keyboard/computer, monitor, disk drive and printer, may include operating manuals for equipment, tutorial software for each piece in the system, and disk operating software programs that permits your computer to function.

If you buy a computer, learn to use it.

Your resources for so doing are at hand: (1) Your manufacturer has supplied manuals and tutorial disks (or tapes) that allow the computer to teach you its quirks and kinks. (2) Popular magazines, handbooks and volumes borrowed from the library supply the depth that the manufacturer's literature and tutorial disks do not. (3) Tutorial software for special applications that takes up where manufacturer software leaves off is widely available. (4) Special applications software can teach you as you work, by "interfacing" manuals and programmed material that appears on the video display screen, together with the computer keyboard, a three-way educational experience that is particularly effective. (5) Commercial correspondence courses are available. And (6) your local evening college or adult school likely offers a more or less complete basic computer curriculum, from beginning programming up to computer repair technology. If you don't learn, and remain a computerphobic, it's nobody's fault but your own.

The Value—"Computers are the wave of the future, and we ought to be surfing the curl." is the way a teen-ager put it. What that means is that in 1940 only one or two people had access to computers on which a minute of time cost thousands. In the '50s,

only businesses and institutions had access to computers. In the 1960s, the computer proliferated as a completely electronic tool, rather than an electromechanical device. In the 1970s, technology and manufacturing techniques put computers within the price range of the well-to-do, and the downsizing of computers was well in progress.

This is the mid-1980s, and economical computer systems are available to most people of average income—at a cost well under the price of a couple of seconds of time on one of those old vacuum tube "brains" of the 1940s. By the end of this decade, if geopolitics do not result in conflict or radical restructuring of governments and/or socioeconomic systems of the world, computers will be very much smaller in size, immensely larger in memory capacity and overall capability, and faster in terms of work output time. What you learn now will provide a foundation for future information. Your current learning will apply in this rapidly moving future.

The survivalist who says, "A computer won't be of any use when there's no electricity," is not a true survivalist. There are the technologies of solar, wind, tidal, geothermal, hydroelectric and coal-fired steam energy sources available to provide electricity to drive a microcomputer. If there is light, there will be computers.

For the future, saved on magnetic "floppy disks" or laser disks or whatever storage devices the time ahead holds, survivalists can store entire libraries, including medical knowledge, and formulae for the mathematics necessary to re-start civilization without mankind having to return to cold ignorance in caves. The computer can educate children, as it is only starting to do nationwide now. The computer can save and store classic poetry and literature, as well as the hard knowledge.

What data is to be stored first? That's up to you. Be selective in the storage of information.

Once you have the hang of computers and computing, you can decide yourself which way and what you wish to store for the future.

Meantime, it is well to learn, to know, and to read and write "computer," because computers *are* the future, and they are here *today*.

Look upon computers as you would a box of new, sharp hand tools. Though unfamiliar at first, these tools can help you to do all manner of things, swiftly and easily. Once you understand that a computer is only a tool, your computerphobia will likely disappear. •

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BALI-SONG

Making the fluid transition from blunt striking weapon to deadly edged weapon . . .

By Russell Maynard

FILIPINO FARMERS, for centuries, have used knives much like the modern-day Bali-Song. While holding a plant stalk, the field worker flips open his knife, makes the cut, then flips the blades closed—all in one smooth motion, just a flick of the wrist. The one-handed technique leaves the worker's hands free to gather and tie the cuttings without having to drop the knife to the ground or fumble with a sheath. As a tool, the Bali-Song has few equals in terms of utility.

Weapon—The knife's capabilities as a weapon reflect equal versatility. Closed, the Bali-Song can be used as a yawara stick for restraining holds and blunt strikes. When partly extended, the knife becomes an effective flail, capable of delivering a much more authoritative blow than, say, a set of keys on a chain. With its integral quillions, long grip and robust blade, the Bali-Song can thrust or slash from a variety of angles.

Gilbert Martinez of San Diego, California, a qualified martial arts instructor, describes the strategic use of the Bali-Song: "One principle of self-defense is to avoid overreaction. Use only as much force as is necessary to subdue an attacker. Be ready to do whatever is required to control the situation. Do not escalate the violence immediately. The Bali-Song can make the transition fluidly from blunt striking weapon to deadly edged weapon, should the situation become a life-or-death confrontation. In many instances, skillful manipulation of a Bali-Song has been sufficiently intimidating to check an aggressor and prevent an attack."

Learning to manipulate the Bali-Song's action requires practice. See the accompanying list of training books.

Evolution—The Bali-Song knife dates back to the 9th Century, A.D., when it originated as a weapon of the fighting arts of the Malayan and Polynesian archi-

pelagos. The knife's name was derived from the Filipino word "*Bali-Sung*," meaning the "breaking-horn knife," breaking for the knife's action, and *horn* for the material used to make its handles. American servicemen in the Philippines nicknamed it the "Butterfly," and "Click-Click," by reason of its winged, fluttering motion when operated, and because of the distinctive sound the knife makes when it is opened and closed.

Lester de Asis, president of Pacific Cutlery Corporation, over more than a decade, has brought the Bali-Song knife to its current state of perfection. At the outset, de Asis knew little about modern metallurgy and knifemaking technology, but recognized the potential in the knife's design. Starting with a crude, hand-made Bali-Song inherited from his Filipino father, de Asis worked to improve and refine the knife. The patented Bali-Song from Pacific Cutlery is recognized as the ultimate in its genre—and is de Asis' tribute to his cultural heritage and his father's memory.

Over the years, de Asis gathered a knowledgeable group of associates: martial artists Dan Inosanto and Jeff Imada helped to design the Bali-Song and to increase the public awareness of the knife through films, books and demonstrations. Jody Samson, a custom knifemaker, and creator of weapons used in the *Conan* films, has handcrafted every blade for Bali-Song's Presentation Series. Michael Stewart, 17-year veteran of the cutlery field, was brought in to develop and expand production facilities. In 1984, more than 50,000 Bali-Songs were produced. Estimates are that 200,000 to 250,000 knives will be made by Pacific Cutlery in 1985.

Current Models—Bali-Song's Presentation Series currently comprises four blade shapes: Weehawk, Akiuchi, Bowie and Utility, in 4- and 5-inch lengths. All are available with wood, micarta or stag handle inserts, or with a skeletonized stainless handle. Presentation knives are custom ground from 3/8-inch 440 stainless stock, hardened to 59-61 on the Rockwell C Scale. Handles are machined from stainless steel blocks. Every latch, pin, bushing and shim is drilled, cut or machined from

Legal?/Illegal?

The LAW

State, county and city laws remain that restrict carrying of knives . . .

MILLIONS OF Bali-Songs have been sold in the U.S. during the past 15 years. Few of them have been associated with criminal activity. Nevertheless, they have been unfairly categorized as dangerous weapons in some cities. Laws enacted to restrict knife ownership have been emotional, illogical and uninformed reactions, based on public fear of crime.

In an effort to disarm street gangs, razors, switchblades and gravity flick-knives were declared "weapons of crime," and were outlawed in the '50s. In 1970, as a result of legal action undertaken by Pacific Cutlery, a federal court overruled the earlier decision, declaring that Bali-song knives are folding knives, *not* switchblades, thus cancelling restrictions on importation, sales and possession of Bali-Songs.

However, state, county and city laws remain that restrict possession and carrying of knives. These laws vary from state to state, city to city. In most states, a double-edge blade is illegal for carry, if more than 6 inches in length (4 inches in New York and Seattle). Concealment of a knife is a crime in most states. In some cities, San Diego

and Milwaukee, for example, Bali-Song style knives are still prohibited.

Bali-Songs are legal in Los Angeles, but opening one with a single wrist-flick could bring about an arrest in L.A., whereas a double-flick wrist movement is perfectly acceptable to City of Angels police.

The best advice to follow is this:

- Bali-Songs may not be categorized as dangerous weapons, but they may be illegal in some locales, so be wary.
- Use good sense when carrying a Bali-Song.
- Don't flaunt your Bali-Song in front of strangers, as your skill—or lack of it—may appear menacing.
- Carry your Bali-Song in a belt pouch or sheath.
- If you are questioned about your knife, open it with both hands, and describe it as just a non-typical folding knife.
- Check with local authorities to discover the legalities of Bali-Song ownership; the police department, sheriff's office or district attorney's office are prime sources of information.
- When you are not sure of the law, leave your Bali-Song at home. •



Here the Bali-Song, closed, is used as a yawara stick in making a blunt strike.



The latch is open and the knife is held by the safe handle (blade edge facing away).



The Bali-Song is flipped open with a quick wrist movement.



The safe handle is rotated in the fingers until the latch handle is pointing down.

As the blade is tilted upward, the fingers open to grasp the latch handle.



The knife is open, at the ready. The entire sequence takes less than a second.



tempered stainless for strength and durability. Personal modifications may be ordered. Retail prices are from \$200 to \$400. Delivery time is 3 to 4 weeks. The Presentation models carry a lifetime guarantee.

The No. 403 Weehawk, with skeletonized handles and double-edged blade is the most popular of custom Bali-Songs. The Utility blade is single-edged, whereas

the Bowie offers the buyer a choice of having its clip point sharpened, along with its main cutting edge.

Since 1983, Pacific Cutlery has marketed a production line of Bali-Song folders: Model No. 10 and Model No. 68. These bench-made knives offer patented features identical to the custom knives, but in smaller 3-inch blade configuration, priced at \$60 to \$75. Machined stainless

blades are hardened to 57-59C, and handles are investment cast of stainless alloy. The Production series Models 10 and 68 are hand fitted, finished and inspected exactly as Presentation models. The 10's locking pins are not fared into the handle contours. Eliminating this cosmetic step reduces the price without sacrificing durability. Production Series Bali-Songs carry a 10-year guarantee.



Pacific Cutlery's new combat/survival line includes, top to bottom, the Bushwacker, which is a modified kukri; the Oda Tanto with neoprene handle, stainless guard and yakiba (heat treated wave pattern on the edge); the Weehawk boot knife with bone handle; and a Weehawk with camo micarta handle.



Bali-Song Model Nos. 10 and 68 are similar, but the No. 68 features more hand finishing, countersunk holes and contoured pins.



Custom Presentation Series Bali-Songs feature stag, ivory, rare wood, micarta and skeleton handles. The knife in the center has a one-of-a-kind guthook blade. The knife at the bottom has the new Akiuchi blade. The No. 68, center, shows a custom Damascus blade.



This is the Samson Hunting series with the 3-inch folder.

The New Breed—Recently, Pacific Cutlery expanded its production with new lines of Bali-Songs, sheath knives for hunting, combat sheath knives, and conventional folders.

The 14 new Bali-Songs, titled the International Series, are imports. Pacific Cutlery took its patented knife technology to Japan, where the new generation of knives is being produced. These knives will retail for \$25 to \$30. These knives will be on the market about the time this magazine goes on newsstands nationwide.

The Samson Series hunters were designed by Jody Samson. All will be 440 stainless, with full tang and black micarta handles; the Filet model will have a thin, flexible blade. Handle shapes and finger grooves make this series of knives comfortable and practical for skinning and camp chores. Folders with 2-, 3- and 4-inch blades will accompany the Samson series in the summer or fall.

Pacific Cutlery has started to market its

new combat/survival line. The Weehawk Boot Knife, another Jody Samson design, has a unique handle shape, designed for either forward- or reverse-grip fighting styles. The Weehawk blade is sufficiently versatile to handle light-duty field chores, as well as personal defense. The retail price of about \$60 includes a lifetime guarantee.

Six other combat/survival knives will reach local dealers by mid-summer. These will include a Japanese Tanto and a sub-hilt fighter designed by master knifemaker Kuzon Oda. Pacific Cutlery will also offer a double-edged fighter, the Bushwacker, and a modified, updated Kukri design.

Bali-Song knives are known by reputation. Survivalists, martial artists and service people, all who require quality knives, could do no better than to look over the Pacific Cutlery lines, old and new.

Additional information is available from Pacific Cutlery Corp., 7328 Laurel Canyon Blvd., Dept. ASG, North Hollywood, CA 91605, phone (818) 764-5705. •

FOR ADDITIONAL READING

• Training:

The Bali-Song Manual
By Jeff Imada
Know Now Publishing, California, 1984

The Manipulation Manual for the Bali-Song Knife
By Tom Wei Ding and Tom Wei Toi
Surfrider Corp., New York, 1983

• Suppliers:

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